

4th Grade

80%

FRACTION

Printables

Includes teaching pages, worksheets, journal pages, quizzes, assessments, word problems, and other activities.

CCSS
aligned

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About this Product..

I am so thrilled with how this product turned out! I originally started out to create some printables to use to supplement my math curriculum. However, this product slowly evolved into an entire fraction unit, complete with...

1. Teaching Pages
2. Worksheets
3. Journal Prompts
4. Word Problems
5. Quizzes and a Final Fractions Assessment
6. Plus, other activities!!

These fraction pages were designed to be used in my 4th grade classroom. However, they would work great in 3rd grade to challenge students and introduce them to more advanced skills. These pages can also be used as a review for 5th graders, to help prepare them for the 5th grade fractions standards.

This product is divided into 6 parts and covers all of the Common Core fraction and decimal standards...

- Part 1: Understanding Fractions (reviews 3rd grade standards)
- Part 2: Equivalent Fractions
- Part 3: Comparing Fractions
- Part 4: Adding & Subtracting Fractions
- Part 5: Multiplying Fractions
- Part 6: Fractions & Decimals

I hope you enjoy these fraction printables as much as I do! Please feel free to e-mail me with any questions that you have, at rjyoung23@gmail.com

Part 1

Understanding

FRACTIONS

STANDARDS: 3.NF.1 and 3.NF.2 (review for 4th)

DURATION: 2 to 3 days

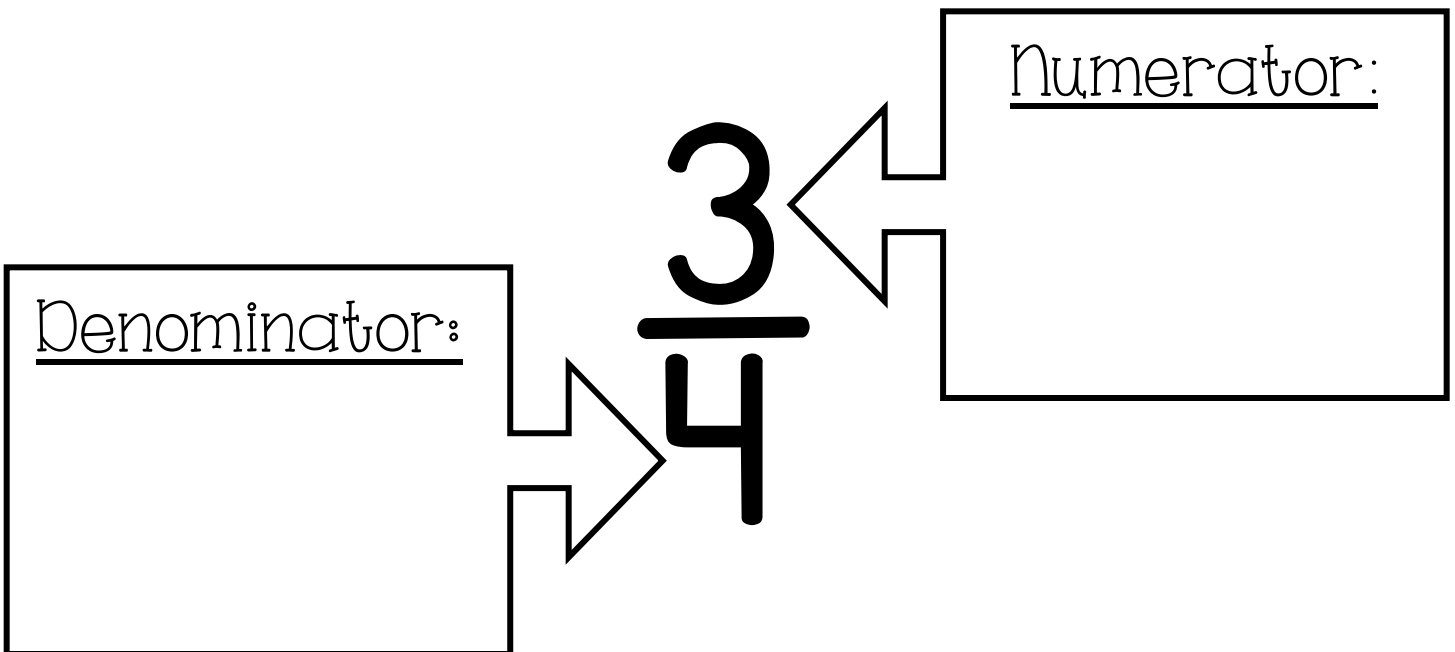
CONTENTS:

1. What is a Fraction?/Parts of a Fraction
2. Fractions are Everywhere (HW Assignment)
3. Ways to Represent a Fraction (4 pages)
4. Name the Fraction (2 pages)
5. Color the Fraction (2 pages)
6. Fractions on a Number Line (2 pages)
7. Pattern Block Fractions
8. Understanding Fractions Quiz
9. Fractions on a Ruler

TOTAL PAGES: 15

What is a fraction?

Parts of a fraction:



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Answer Key

What is a fraction?

A fraction represents a part of a whole.

Parts of a fraction:

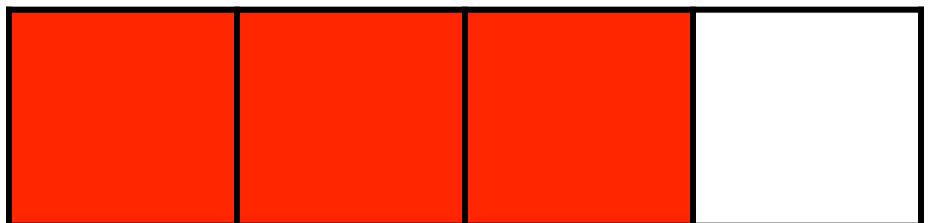
Numerator:

Represents the part of the whole.

Denominator:

Represents the number of equal parts in a whole.

$\frac{3}{4}$



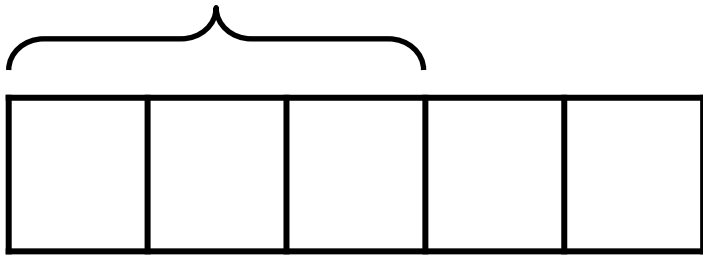
fractions are EVERYWHERE

For homework tonight, think of all the different ways that fractions are used in real-life. Think of different examples and ask family members for ideas. Record your ideas in the space below. Create a list, draw pictures, or cut and paste examples you find.

Ways to Represent a Fraction

Fraction Bars

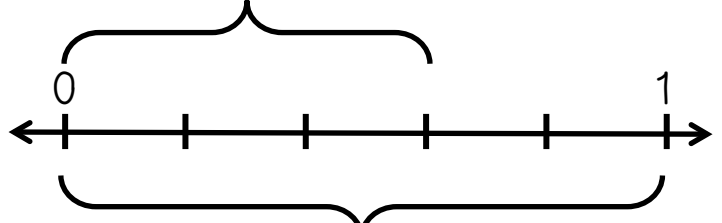
Shade ___ Parts



Number of
Equal Parts

Number Line

Represents ___
Parts of the Whole



Represent
One Whole

How many parts is the
whole divided into? ___

$$\frac{3}{5}$$

Parts of a Group

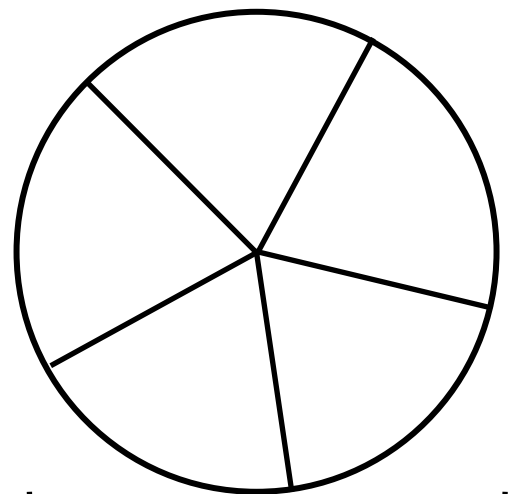
Shade ___ out of ___



Total Objects
in a Group

Circle Model

Shade ___ Parts



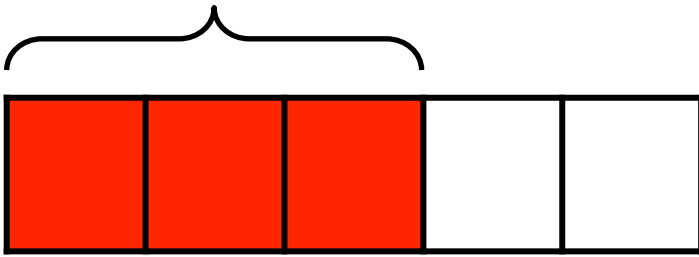
Divided into ___
Equal Parts

Answer Key

Ways to Represent a Fraction

Fraction Bars

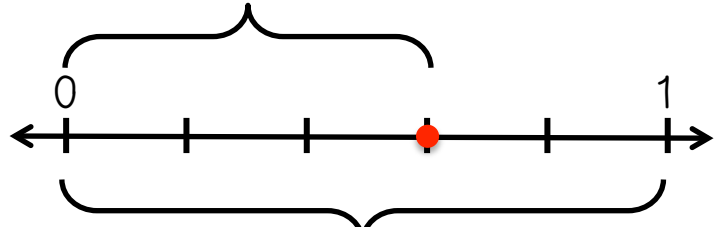
Shade 3 Parts



Number of
Equal Parts

Number Line

Represents 3
Parts of the Whole



Represent
One Whole

How many parts is the
whole divided into? 5

$\frac{3}{5}$

Parts of a Group

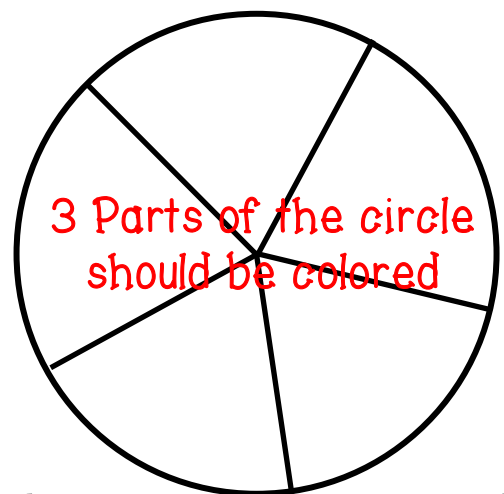
Shade 3 out of 5



Total Objects
in a Group

Circle Model

Shade 3 Parts



3 Parts of the circle
should be colored

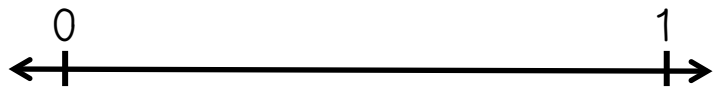
Divided into 5
Equal Parts

Ways to Represent a Fraction

Fraction Bars



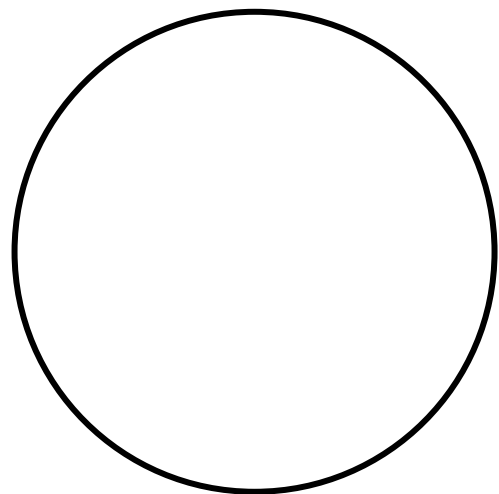
Number Line



$$\frac{3}{4}$$

Parts of a Group

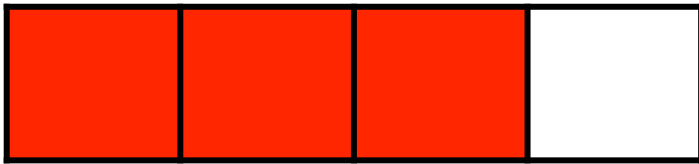
Circle Model



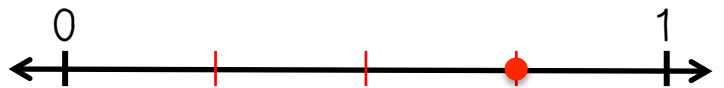
Answer Key

Ways to Represent a Fraction

Fraction Bars



Number Line



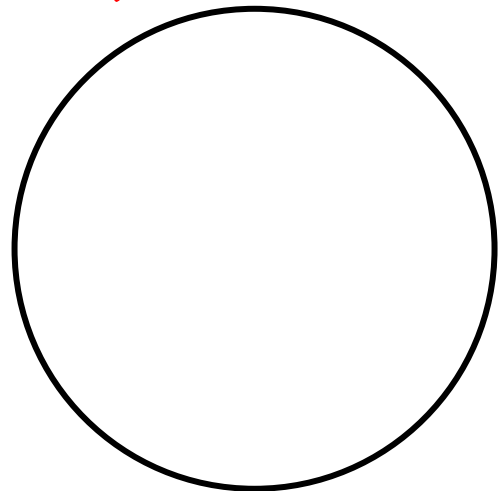
$$\frac{3}{4}$$

Parts of a Group



Circle Model

Circle should be divided into 4 equal parts, with 3 shaded.

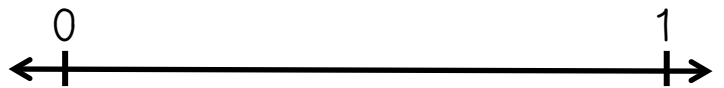


Ways to Represent a Fraction

Fraction Bars



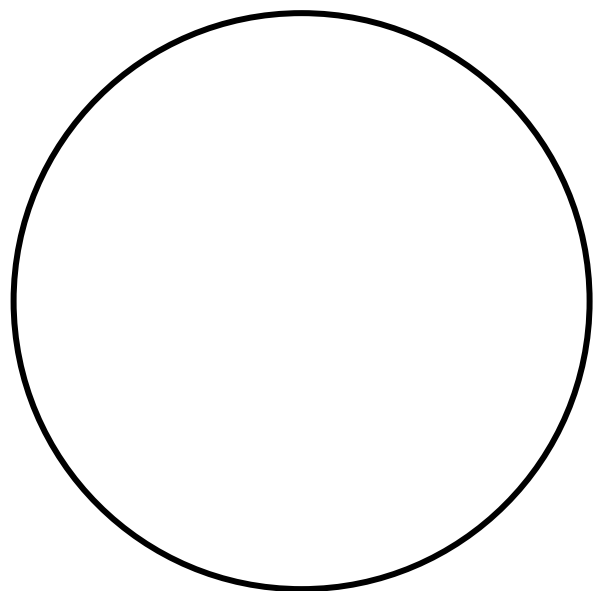
Number Line



$$\frac{5}{8}$$

Parts of a Group

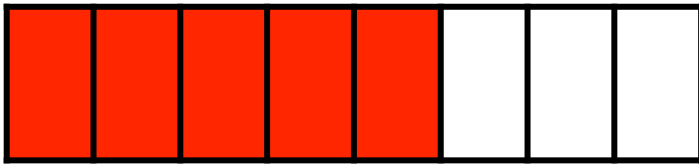
Circle Model



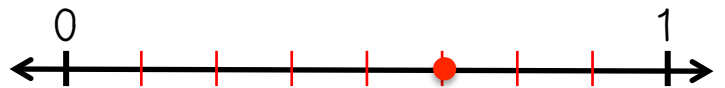
Answer Key

Ways to Represent a Fraction

Fraction Bars



Number Line



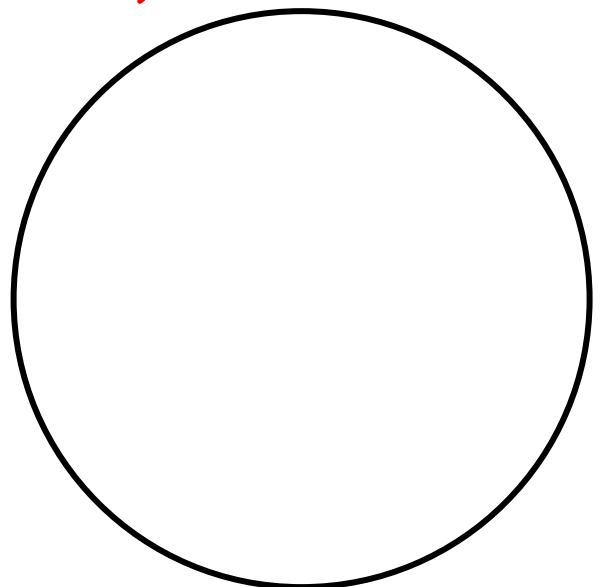
$$\frac{5}{8}$$

Parts of a Group



Circle Model

Circle should be divided into 8 equal parts, with 5 shaded.



Ways to Represent a Fraction

Fraction Bars



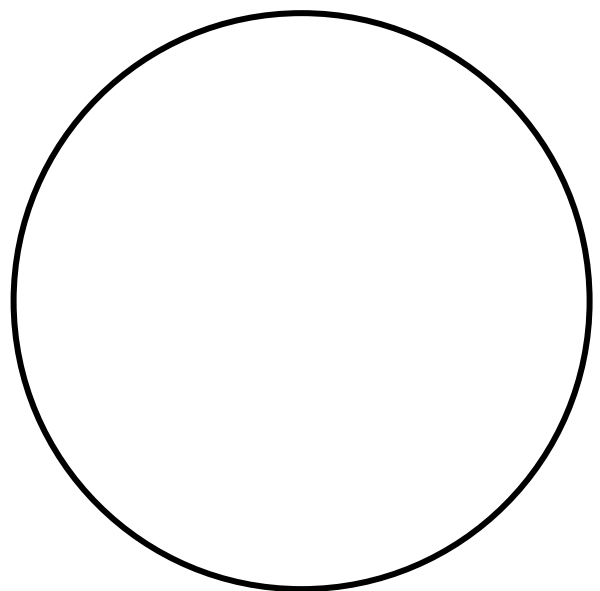
Number Line



$$\frac{3}{8}$$

Parts of a Group

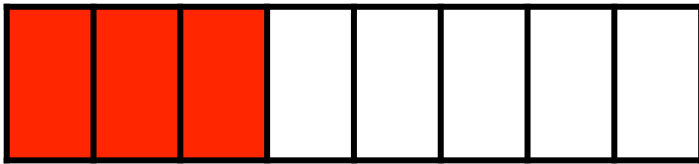
Circle Model



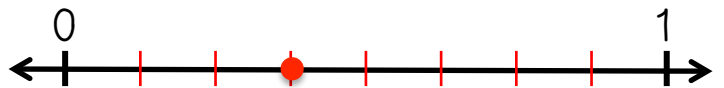
Answer Key

Ways to Represent a Fraction

Fraction Bars



Number Line



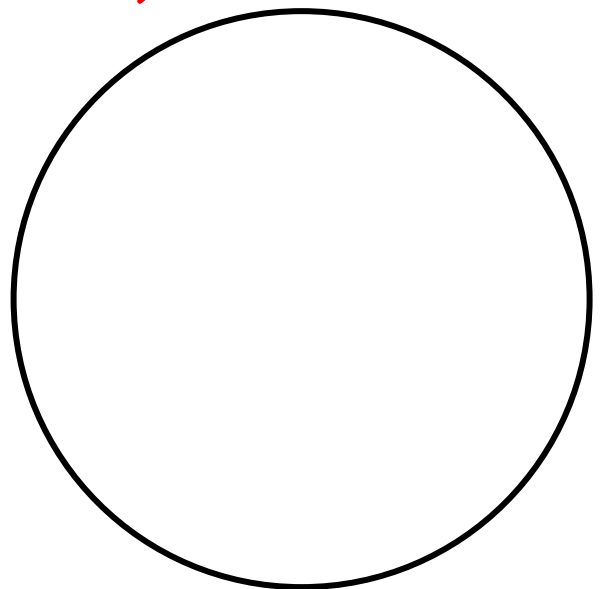
$$\frac{3}{8}$$

Parts of a Group



Circle Model

Circle should be divided into 8 equal parts, with 3 shaded.



Name: _____ Date: _____ Score: _____

Name the fraction

1.



—

2.



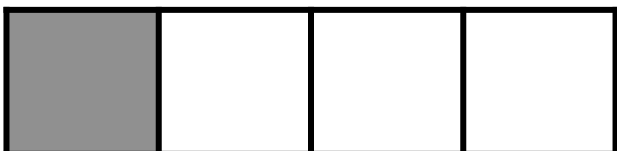
—

3.



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4.



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5.



—

6.



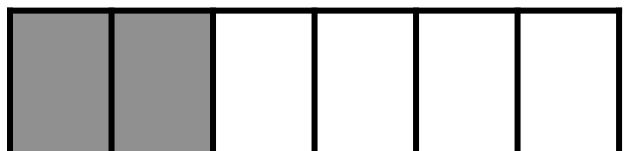
—

7.



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8.



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Answer Key

Name: _____ Date: _____ Score: _____

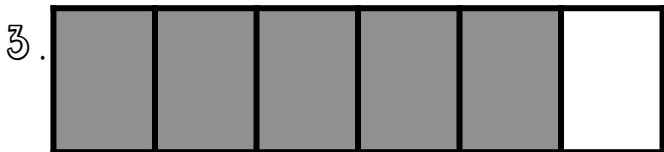
Name the fraction #



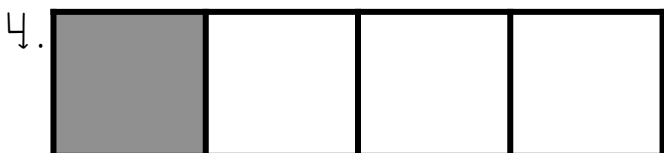
$$\frac{2}{3}$$



$$\frac{1}{2}$$



$$\frac{5}{6}$$



$$\frac{1}{4}$$



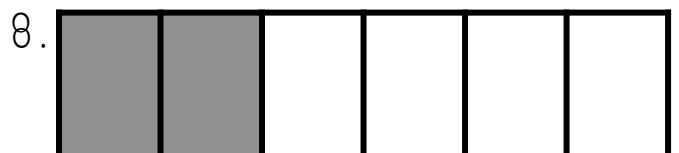
$$\frac{5}{8}$$



$$\frac{3}{4}$$



$$\frac{2}{5}$$



$$\frac{2}{6}$$

Name: _____ Date: _____ Score: _____

Name the fraction #2

1.



—

2.



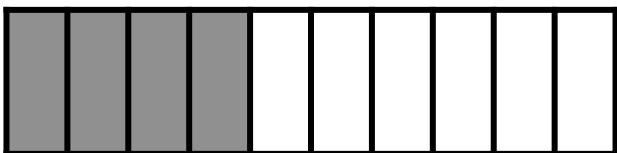
—

3.



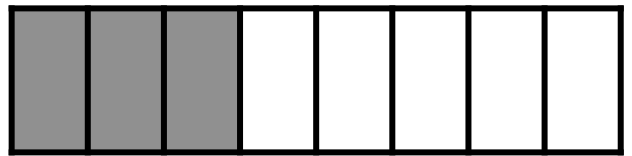
—

4.



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5.



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6.



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7.



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8.



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Answer Key

Name: _____ Date: _____ Score: _____

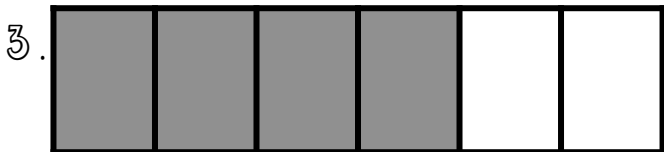
Name the fraction #2



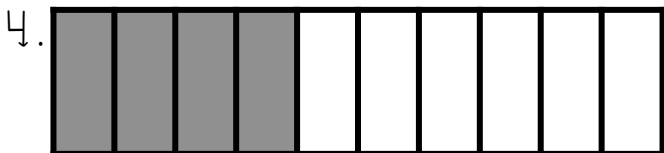
$$\frac{1}{3}$$



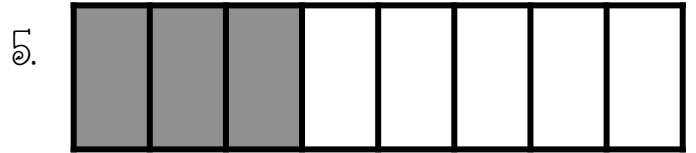
$$\frac{7}{10}$$



$$\frac{4}{6}$$



$$\frac{4}{10}$$



$$\frac{3}{8}$$



$$\frac{2}{4}$$



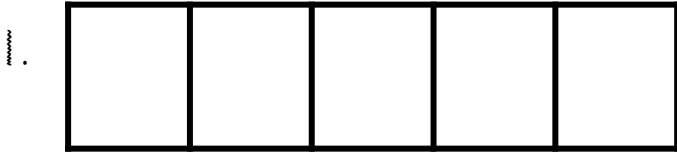
$$\frac{3}{5}$$



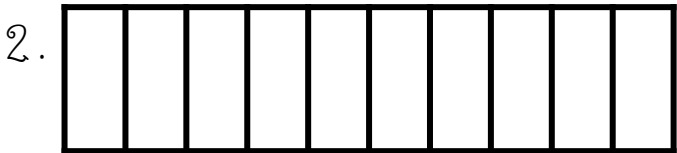
$$\frac{3}{6}$$

Name: _____ Date: _____ Score: _____

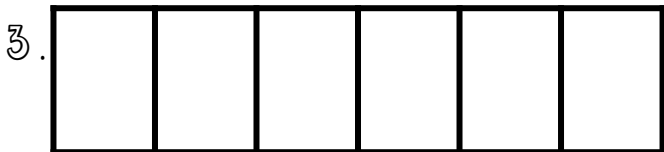
Color the fraction



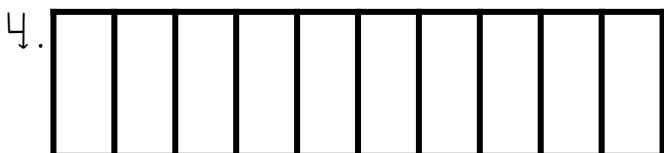
$$\frac{5}{5}$$



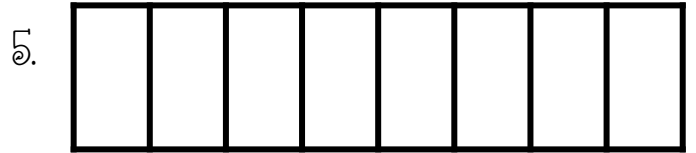
$$\frac{5}{10}$$



$$\frac{2}{6}$$



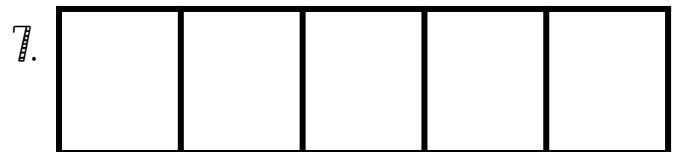
$$\frac{7}{10}$$



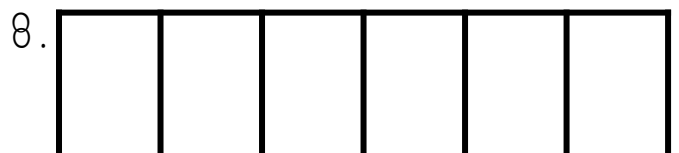
$$\frac{6}{8}$$



$$\frac{1}{4}$$



$$\frac{5}{5}$$

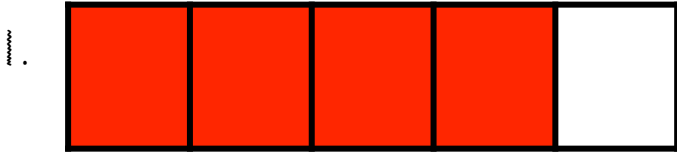


$$\frac{5}{6}$$

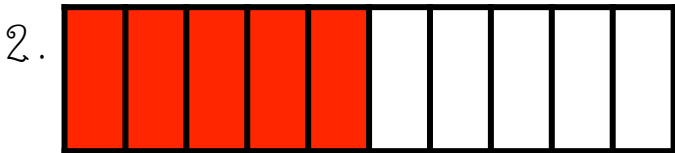
Answer Key

Name: _____ Date: _____ Score: _____

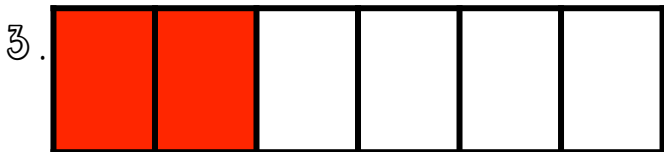
Color the fraction #



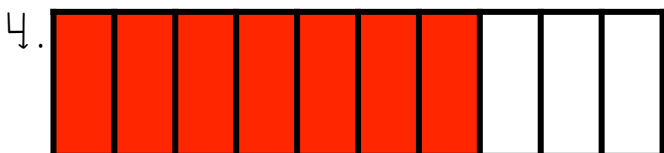
$$\frac{4}{5}$$



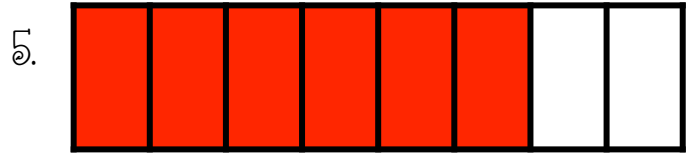
$$\frac{5}{10}$$



$$\frac{2}{6}$$



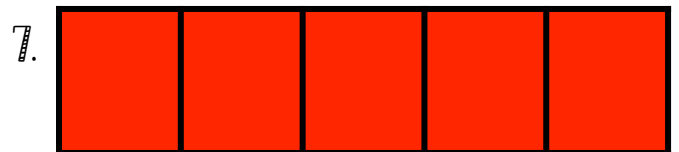
$$\frac{7}{10}$$



$$\frac{6}{8}$$



$$\frac{1}{4}$$



$$\frac{5}{5}$$



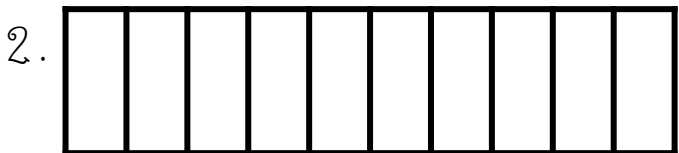
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Name: _____ Date: _____ Score: _____

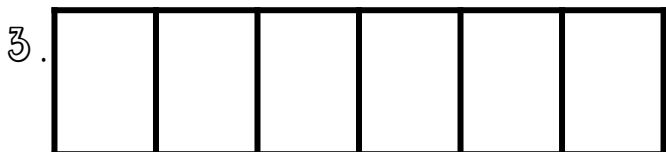
Color the fraction #2



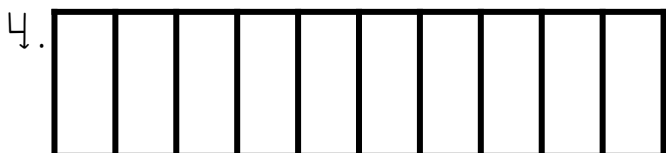
$$\frac{3}{8}$$



$$\frac{4}{10}$$



$$\frac{3}{6}$$



$$\frac{8}{10}$$



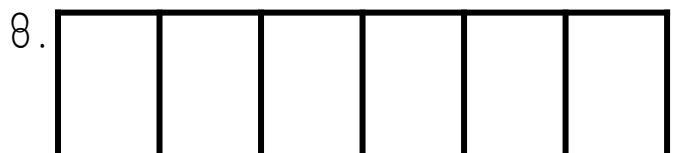
$$\frac{2}{4}$$



$$\frac{5}{5}$$



$$\frac{7}{8}$$

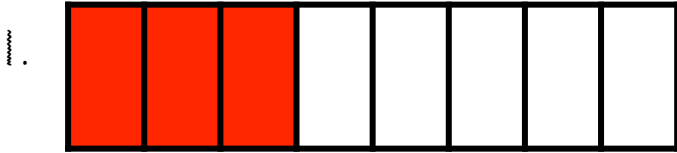


$$\frac{2}{6}$$

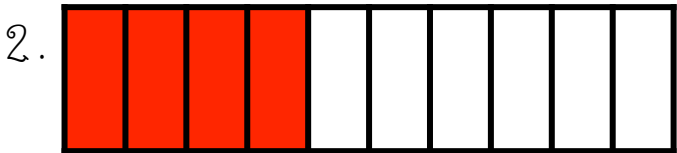
Answer Key

Name: _____ Date: _____ Score: _____

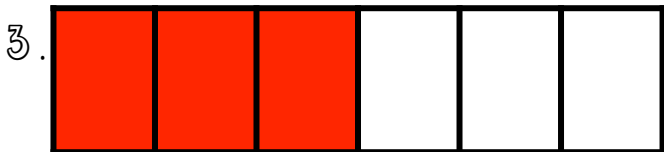
Color the fraction #2



$$\frac{3}{8}$$



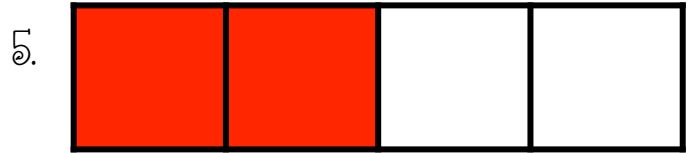
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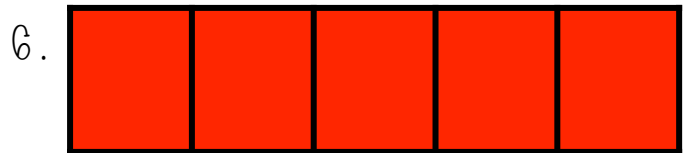
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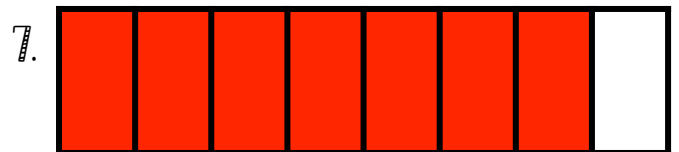
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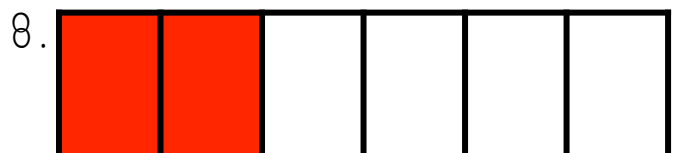
$$\frac{2}{4}$$



$$\frac{5}{5}$$



$$\frac{7}{8}$$

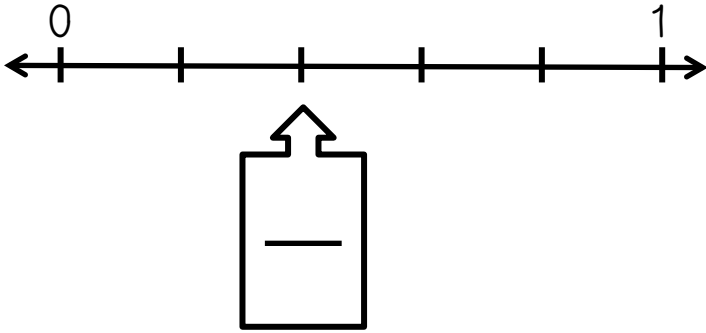


$$\frac{2}{6}$$

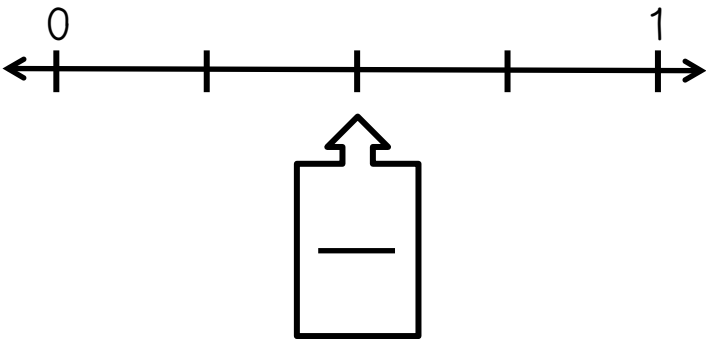
Name: _____ Date: _____ Score: _____

Fractions on a Number Line

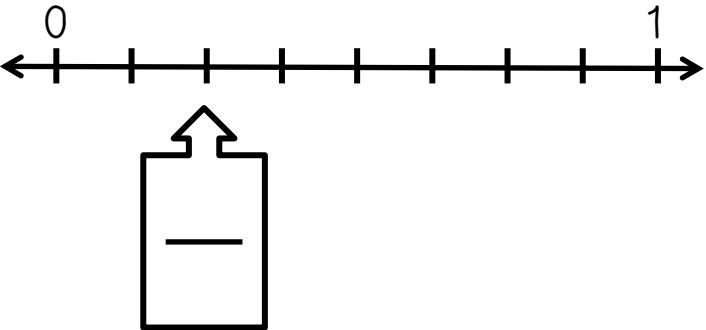
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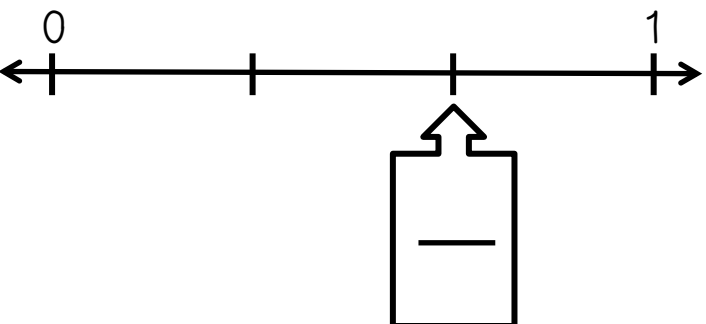
2.



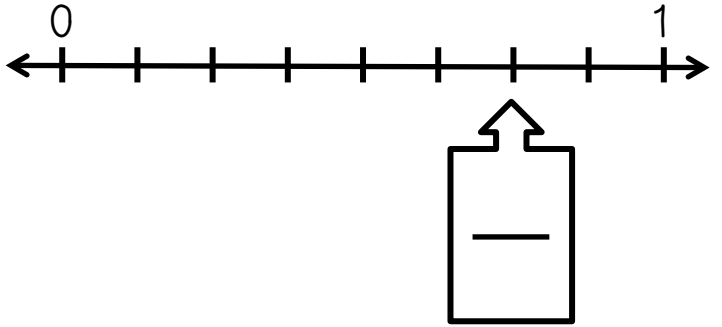
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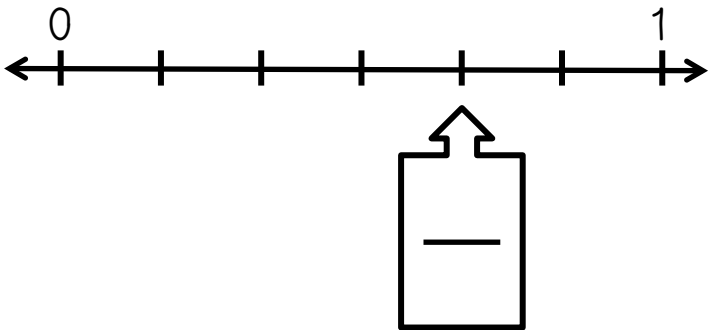
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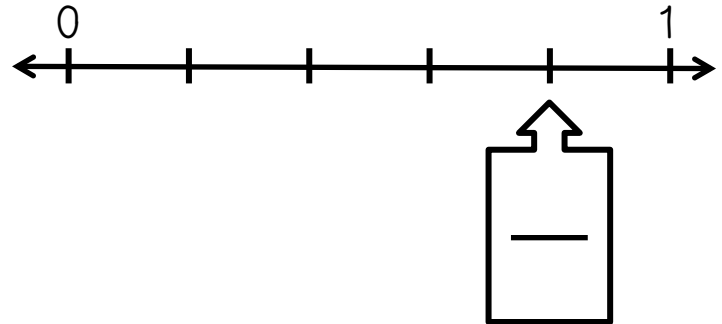
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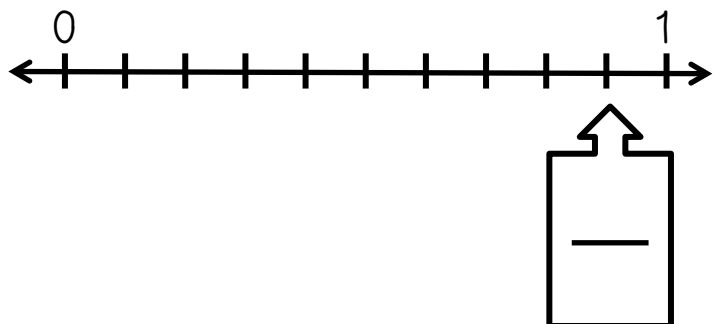
6.



7.



8.

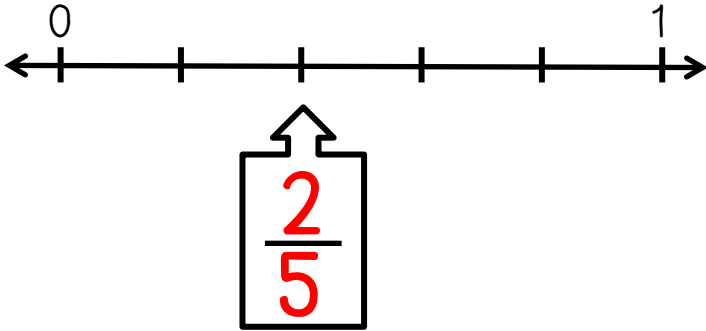


Answer Key

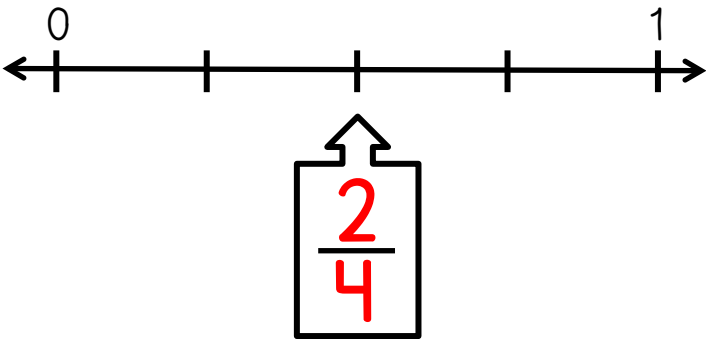
Name: _____ Date: _____ Score: _____

Fractions on a Number Line

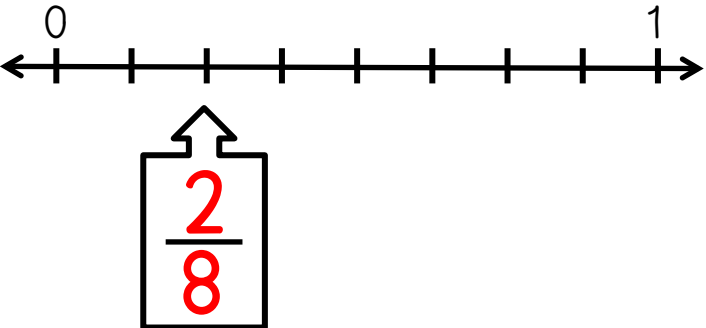
1.



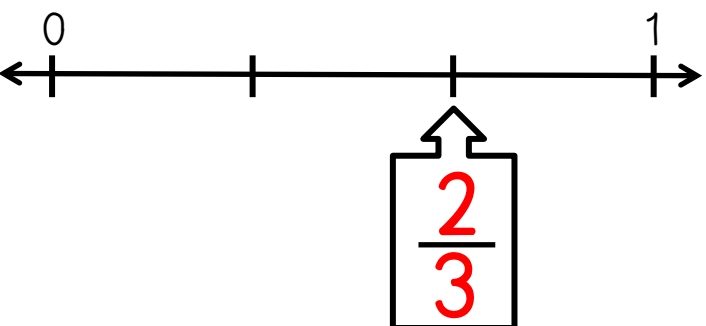
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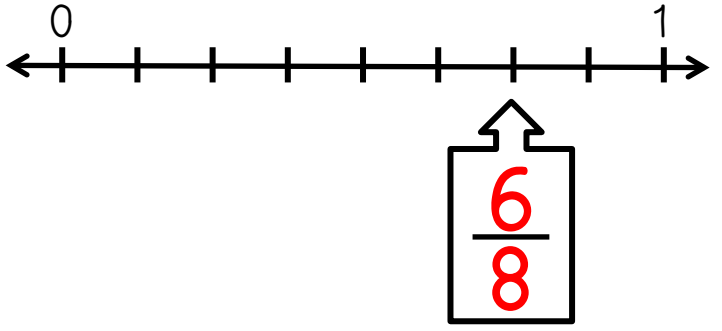
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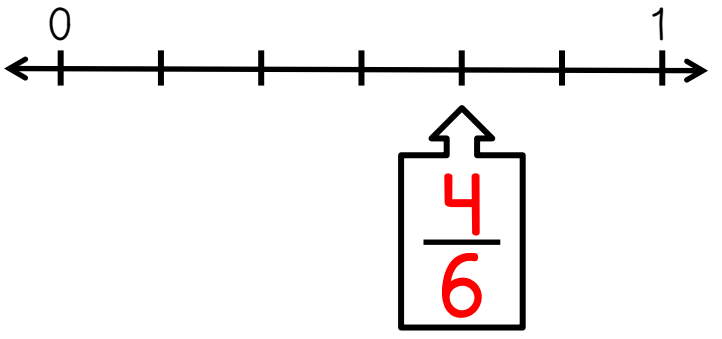
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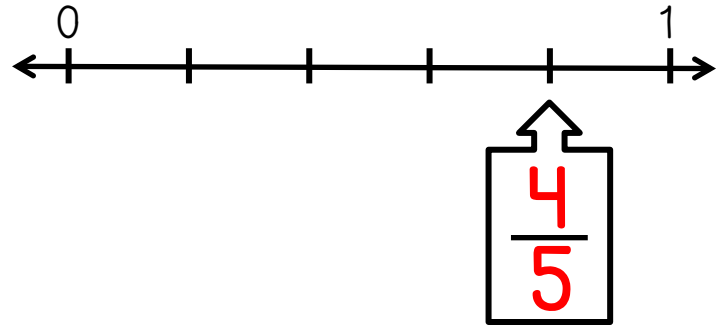
5.



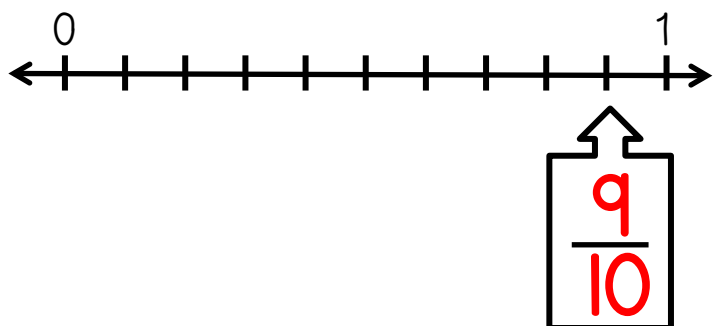
6.



7.



8.



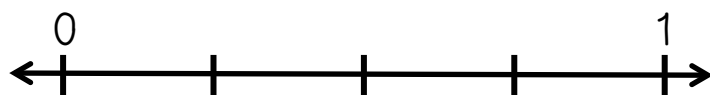
Name: _____ Date: _____ Score: _____

Fractions on a Number Line #2

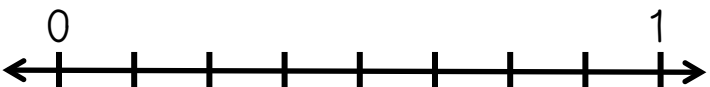
1. Label $\frac{3}{5}$ on the number line.



2. Label $\frac{3}{4}$ on the number line.



3. Label $\frac{3}{8}$ on the number line.



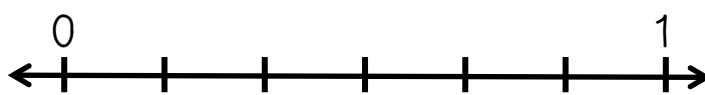
4. Label $\frac{1}{3}$ on the number line.



5. Label $\frac{5}{8}$ on the number line.



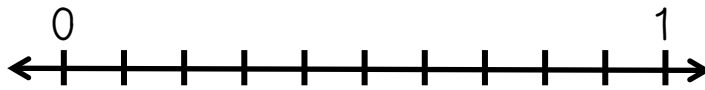
6. Label $\frac{2}{6}$ on the number line.



7. Label $\frac{2}{5}$ on the number line.



8. Label $\frac{8}{10}$ on the number line.



Answer Key

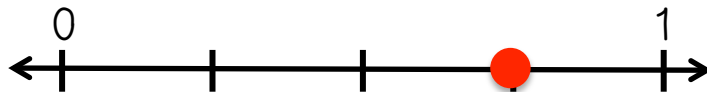
Name: _____ Date: _____ Score: _____

Fractions on a Number Line #2

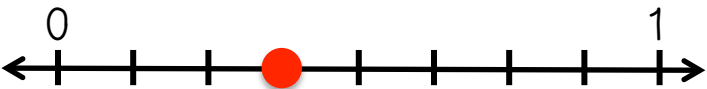
1. Label $\frac{3}{5}$ on the number line.



2. Label $\frac{3}{4}$ on the number line.



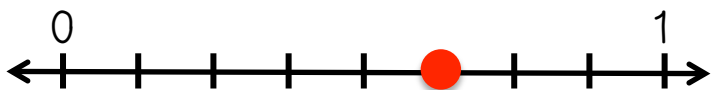
3. Label $\frac{3}{8}$ on the number line.



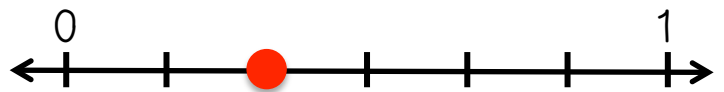
4. Label $\frac{1}{3}$ on the number line.



5. Label $\frac{5}{8}$ on the number line.



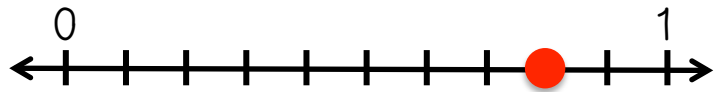
6. Label $\frac{2}{6}$ on the number line.



7. Label $\frac{2}{5}$ on the number line.



8. Label $\frac{8}{10}$ on the number line.

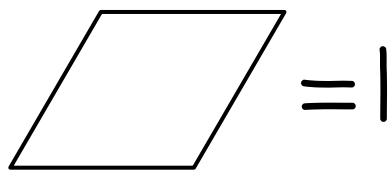


Name: _____ Date: _____ Score: _____

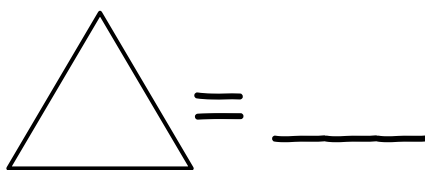
Pattern Block Fractions

{ Use pattern blocks to help find each of the fractions. }

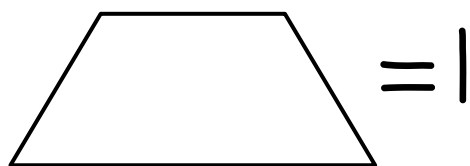
If...



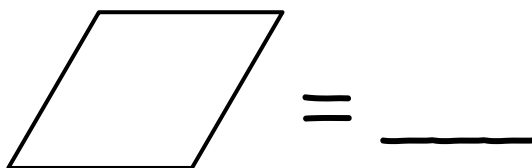
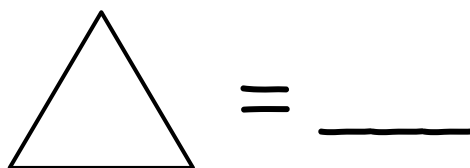
Then...



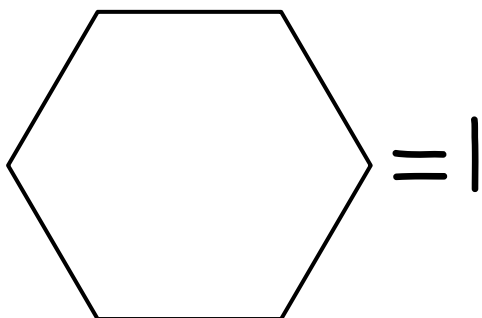
If...



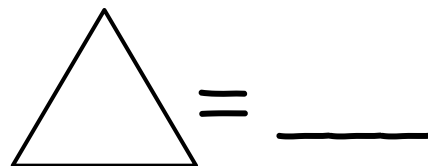
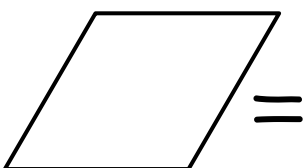
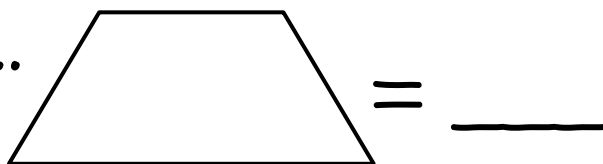
Then...



If...



Then...



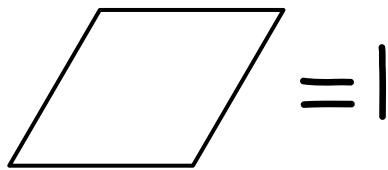
Answer Key

Name: _____ Date: _____ Score: _____

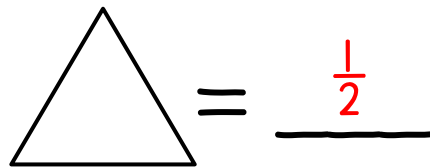
Pattern Block Fractions

{ Use pattern blocks to help find each of the fractions. }

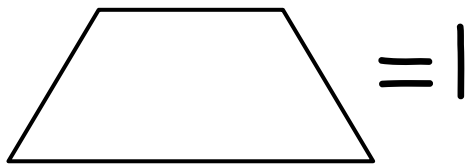
If...



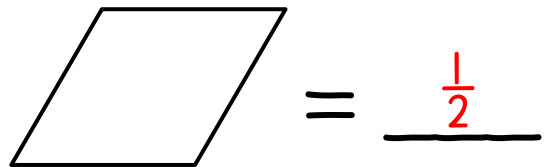
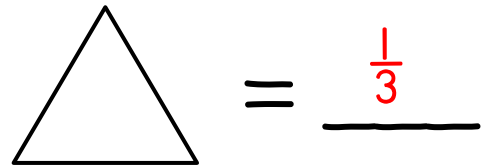
Then...



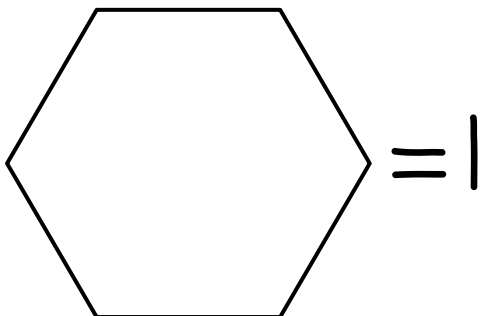
If...



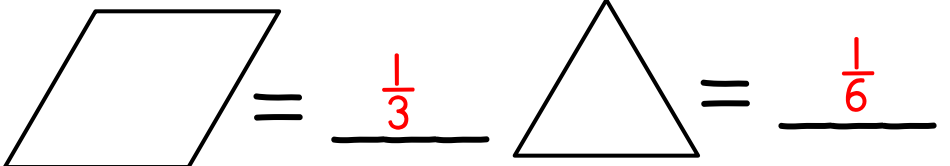
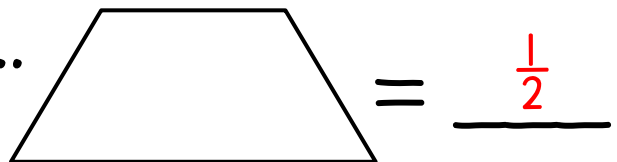
Then...



If...



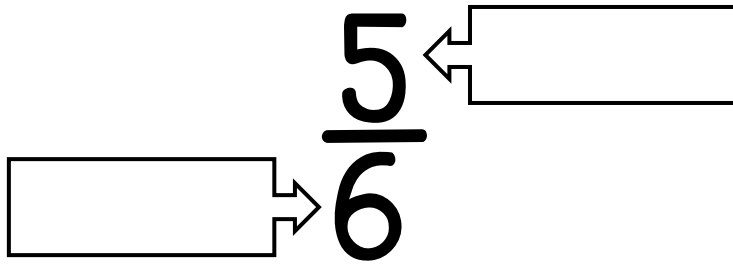
Then...



Name: _____ Date: _____ Score: _____

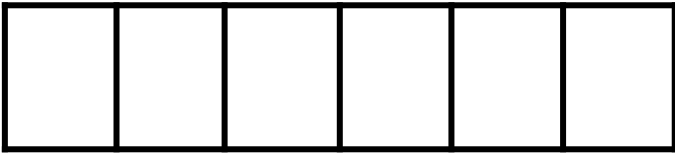
Understanding Fractions Quiz

Label the fraction parts.

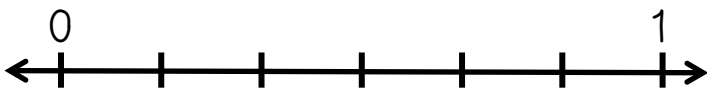


Represent $\frac{5}{6}$ using the following.

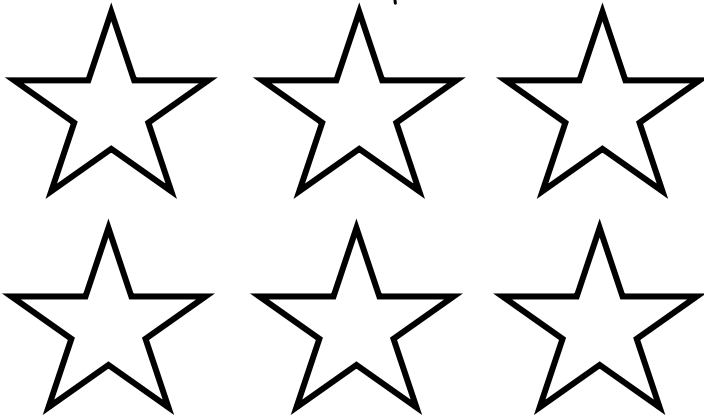
Bar Model:



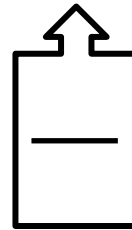
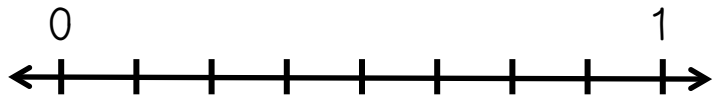
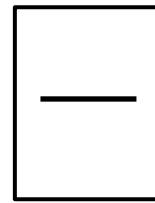
Number Line:



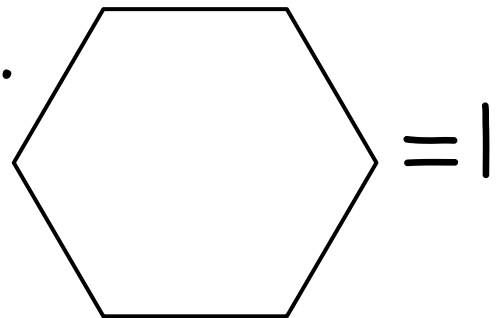
Parts of a Group:



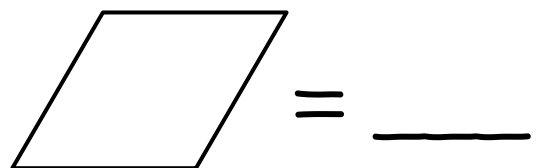
Find the fraction for each.



If...



Then...

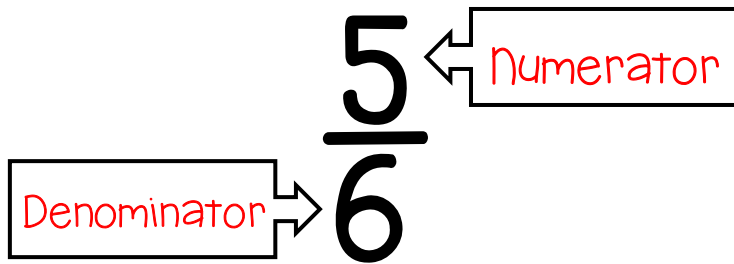


Answer Key

Name: _____ Date: _____ Score: _____

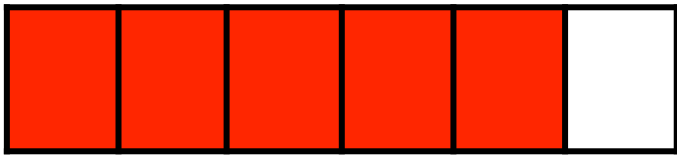
Understanding Fractions Quiz

Label the fraction parts.

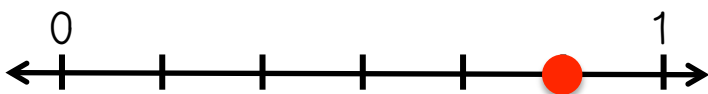


Represent $\frac{5}{6}$ using the following.

Bar Model:



Number Line:



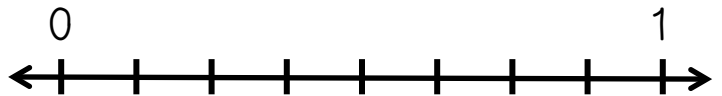
Parts of a Group:



Find the fraction for each.

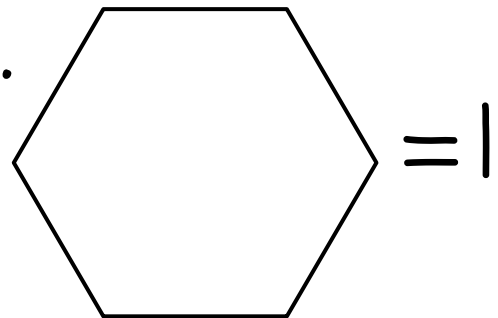


$$\frac{5}{8}$$

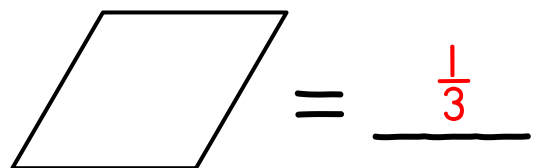


$$\frac{3}{8}$$

If...



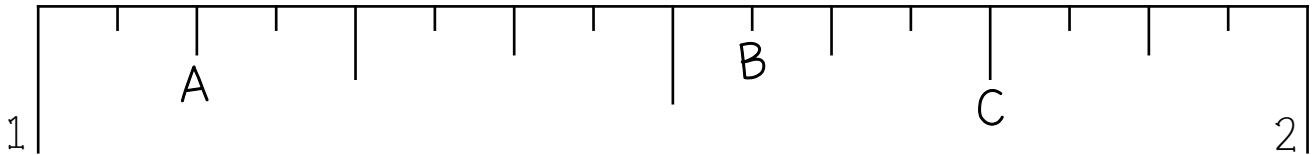
Then...



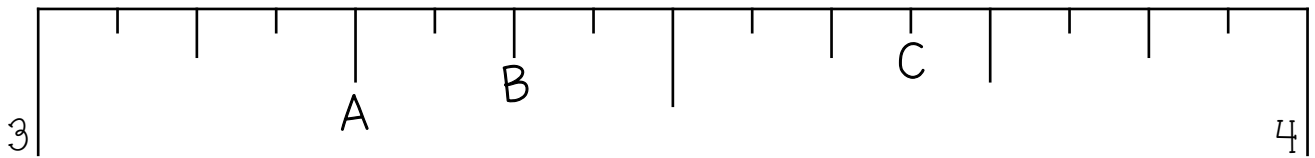
Name: _____ Date: _____ Score: _____

Fractions on a Ruler

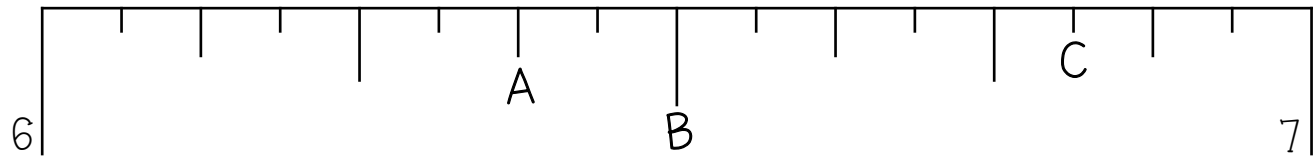
Directions: For each ruler section, find A, B, and C.



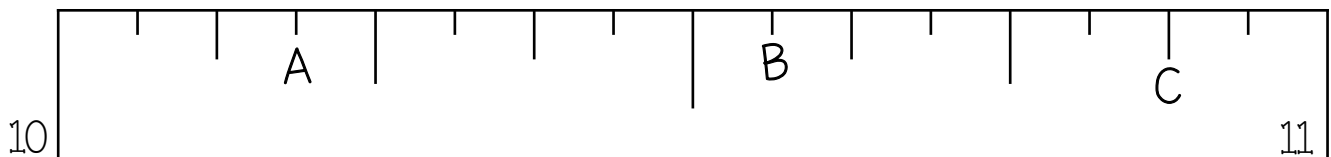
A: _____ B: _____ C: _____



A: _____ B: _____ C: _____



A: _____ B: _____ C: _____



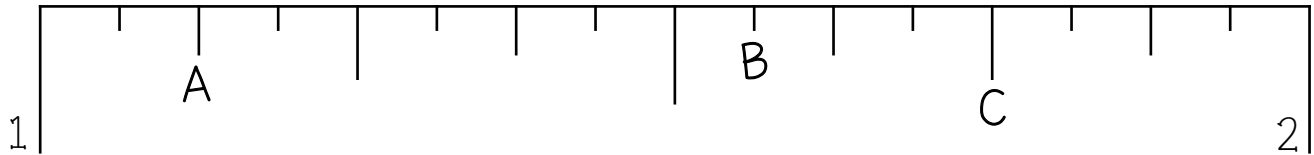
A: _____ B: _____ C: _____

Answer Key

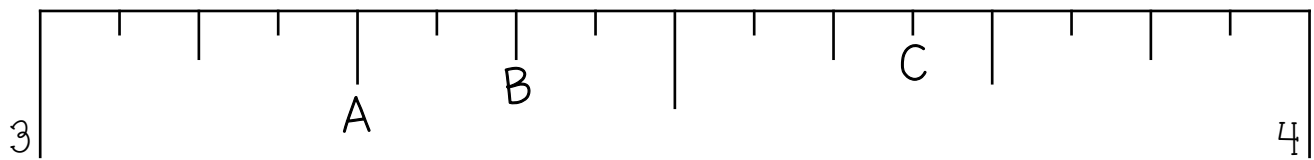
Name: _____ Date: _____ Score: _____

Fractions on a Ruler

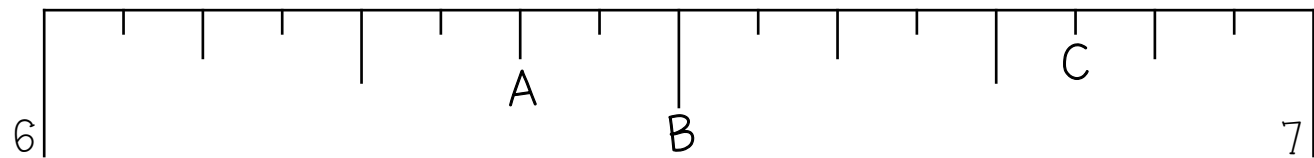
Directions: For each ruler section, find A, B, and C.



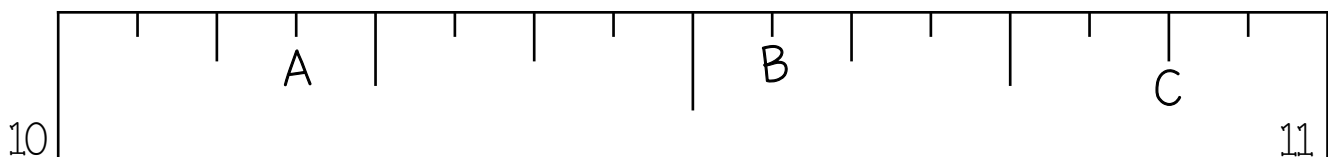
A: $\frac{1}{8}$ B: $\frac{9}{16}$ C: $\frac{3}{4}$



A: $3\frac{1}{4}$ B: $3\frac{3}{8}$ C: $3\frac{11}{16}$



A: $6\frac{3}{8}$ B: $6\frac{1}{2}$ C: $6\frac{13}{16}$



A: $10\frac{3}{16}$ B: $10\frac{3}{16}$ C: 10

Part 2

Equivalent

FRACTIONS

STANDARDS: 4.NF.1, 4.NF.5

DURATION: 2 to 3 days

CONTENTS:

1. Equivalent Fractions Chart
2. Equivalent Fraction Bars (2 pages)
3. Equivalent Fractions: Denominators of 10 & 100 (2 pages)
4. Using Multiplication to Find Equivalent Fractions
5. Using Division to Find Equivalent Fractions
6. Simplest Form
7. True or False: Equivalent Fractions Journal Prompt
8. Find Equivalent Fractions Journal Prompt
9. Mixed Practice: Equivalent Fractions
10. Equivalent Fractions Quiz

TOTAL PAGES: 12

Equivalent Fractions Chart

{ Label and color the fraction bars. Then use the fraction bars to list as many equivalent fractions as you can for the fractions below. }

$$\frac{1}{2} =$$

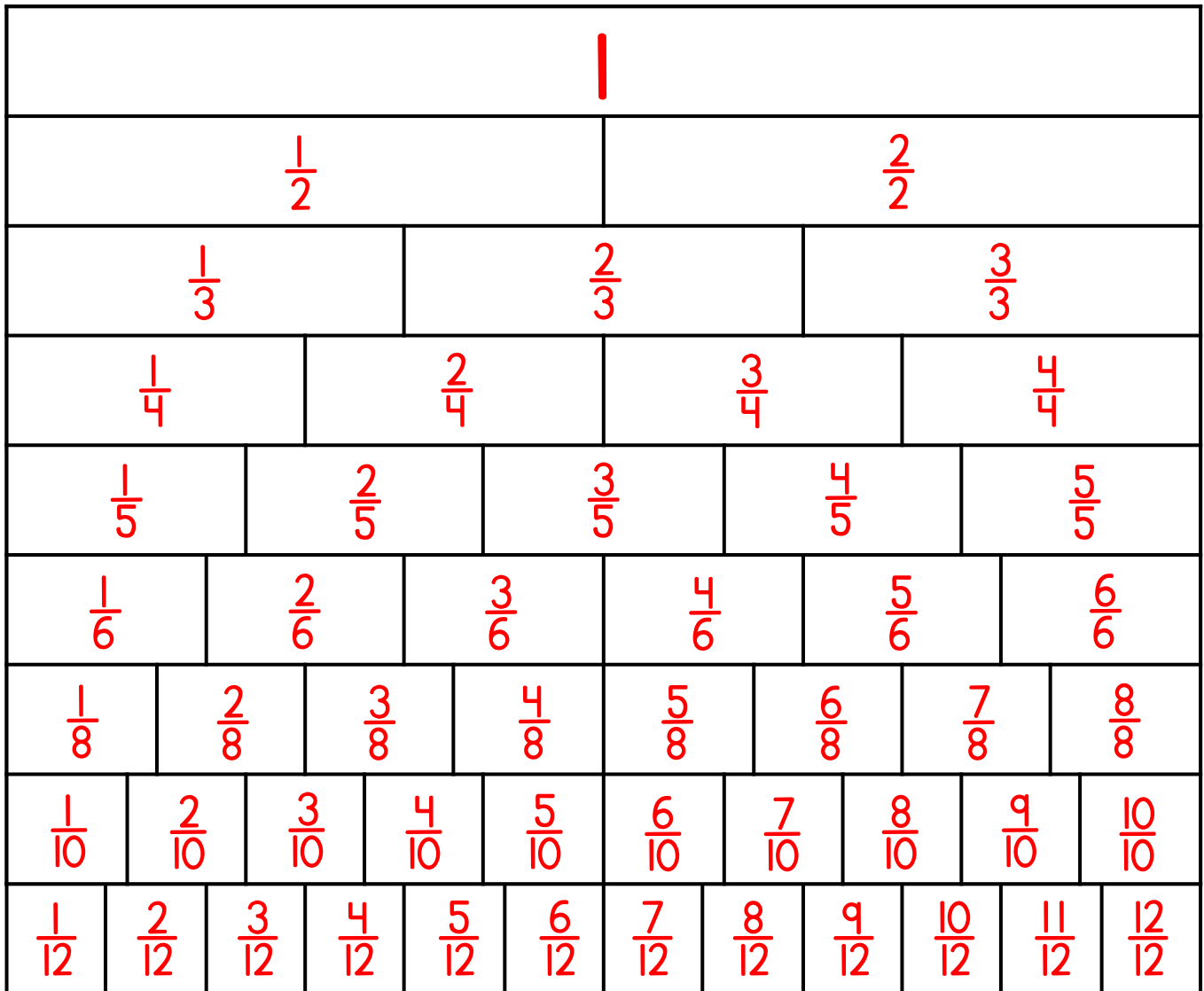
$$\frac{1}{3} =$$

$$\frac{1}{4} =$$

Answer Key

Equivalent Fractions Chart

{ Label and color the fraction bars. Then use the fraction bars to list as many equivalent fractions as you can for the fractions below. }



$$\frac{1}{2} = \frac{2}{4} \quad \frac{3}{6} \quad \frac{4}{8} \quad \frac{5}{10} \quad \frac{6}{12}$$

$$\frac{1}{3} = \frac{2}{6} \quad \frac{4}{12}$$

$$\frac{1}{4} = \frac{2}{8} \quad \frac{3}{12}$$

Name: _____ Date: _____ Score: _____

Equivalent Fraction Bars

For each:

1. Name the fraction for the first fraction bar.
2. Color the second fraction bar to represent an equivalent fraction.
3. Write the equivalent fraction.



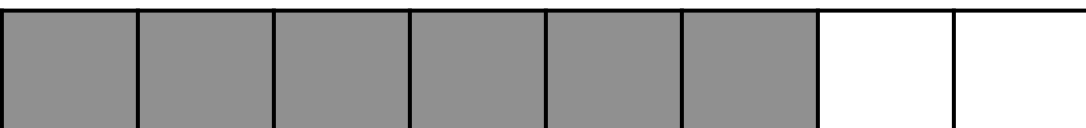
_____ = _____



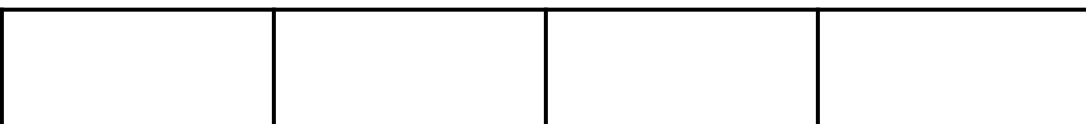
_____ = _____



_____ = _____



_____ = _____



Answer Key

Name: _____ Date: _____ Score: _____

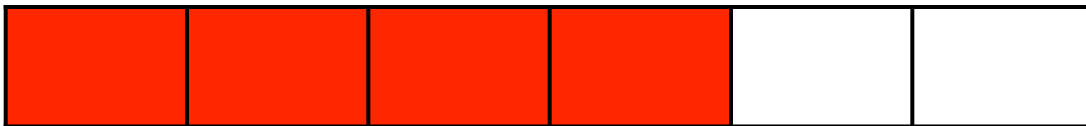
Equivalent Fraction Bars

For each:

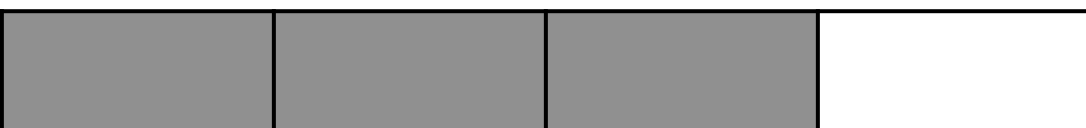
1. Name the fraction for the first fraction bar.
2. Color the second fraction bar to represent an equivalent fraction.
3. Write the equivalent fraction.



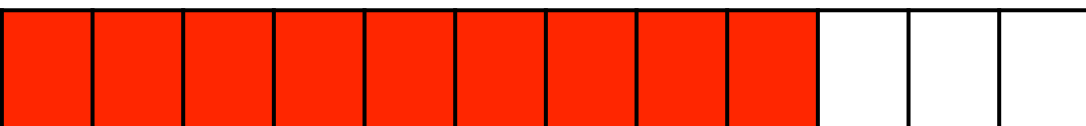
$$\frac{2}{3} = \frac{4}{6}$$



$$\frac{4}{5} = \frac{8}{10}$$



$$\frac{3}{4} = \frac{9}{12}$$



$$\frac{6}{8} = \frac{3}{4}$$



Name: _____ Date: _____ Score: _____

Equivalent Fraction Bars #2

For each:

1. Name the fraction for the first fraction bar.
2. Color the second fraction bar to represent an equivalent fraction.
3. Write the equivalent fraction.



_____ = _____



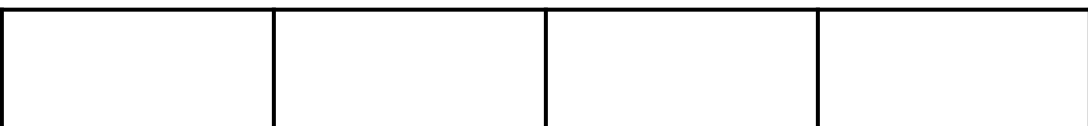
_____ = _____



_____ = _____



_____ = _____



Answer Key

Name: _____ Date: _____ Score: _____

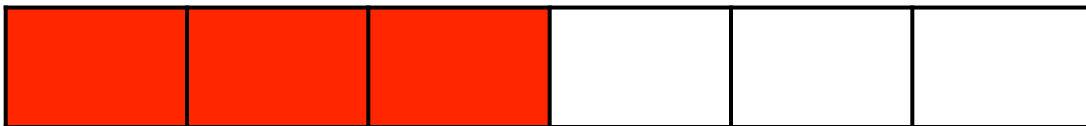
Equivalent Fraction Bars #2

For each:

1. Name the fraction for the first fraction bar.
2. Color the second fraction bar to represent an equivalent fraction.
3. Write the equivalent fraction.



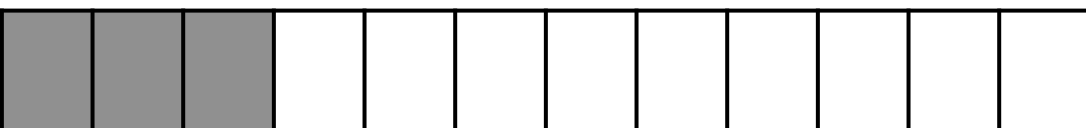
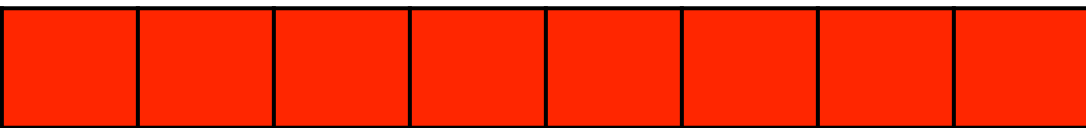
$$\frac{2}{4} = \frac{3}{6}$$



$$\frac{6}{10} = \frac{3}{5}$$



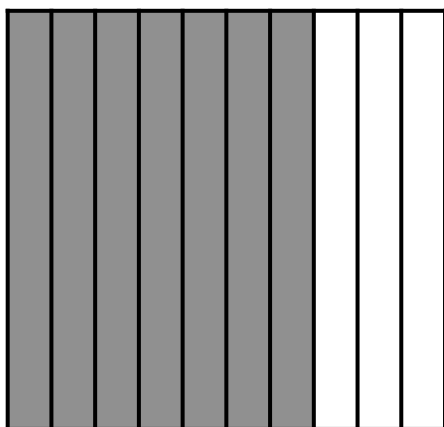
$$\frac{1}{1} = \frac{8}{8}$$



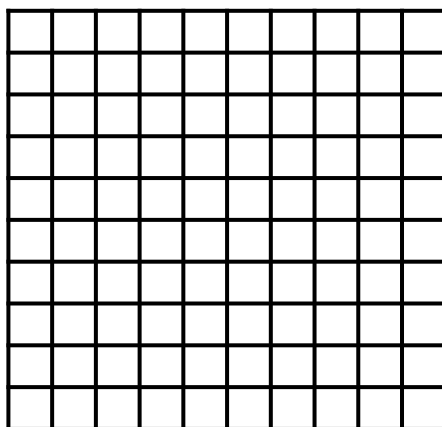
$$\frac{3}{12} = \frac{1}{4}$$



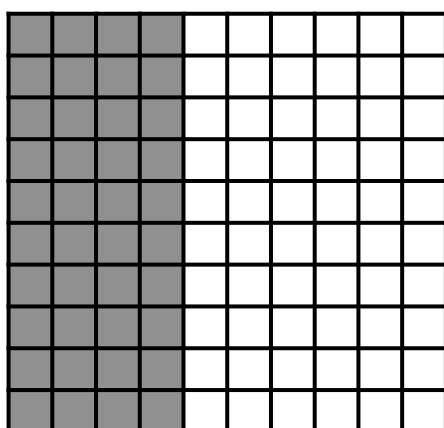
Equivalent fractions: Denominators of 10 & 100



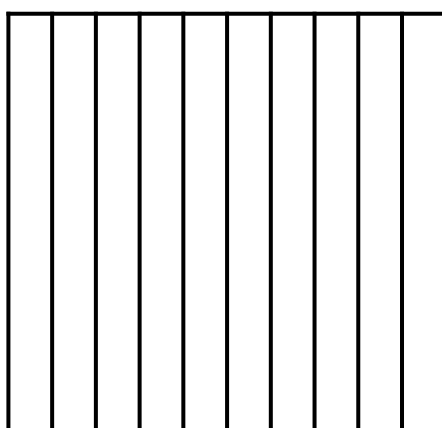
$$\frac{7}{10} =$$



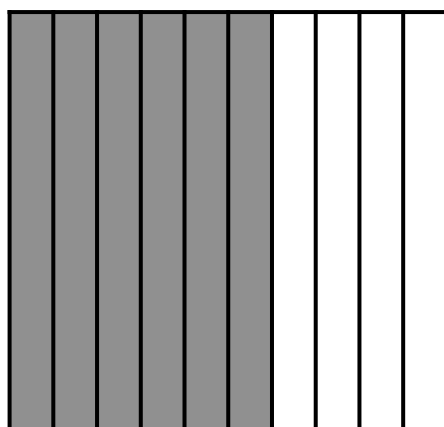
$$\frac{\quad}{100}$$



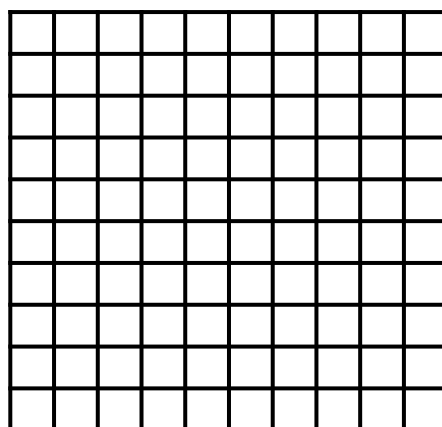
$$\frac{40}{100} =$$



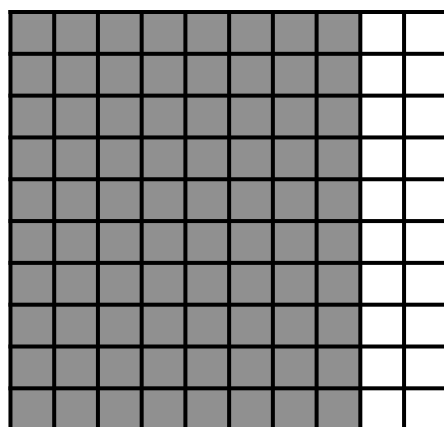
$$\frac{\quad}{10}$$



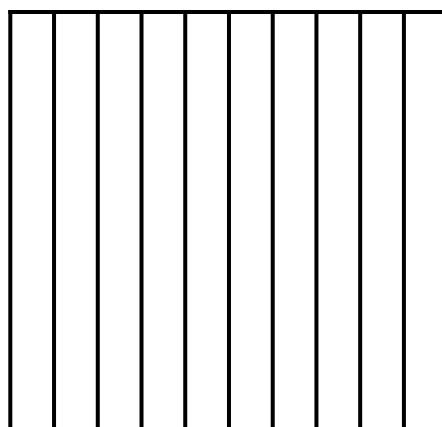
$$\frac{6}{10} =$$



$$\frac{\quad}{100}$$



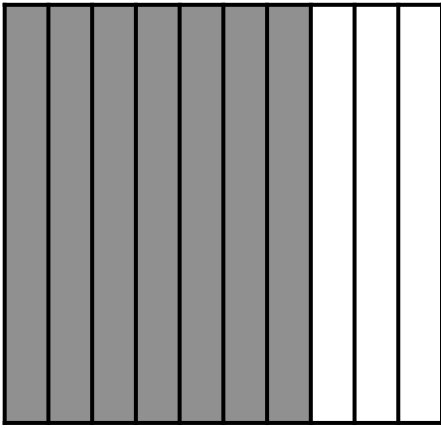
$$\frac{80}{100} =$$



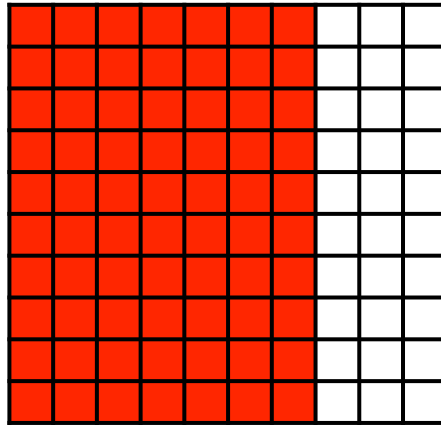
$$\frac{\quad}{10}$$

Answer Key

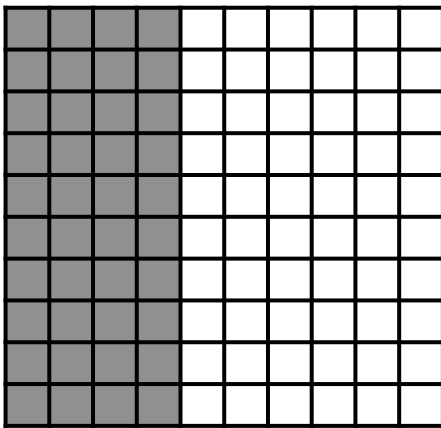
Equivalent fractions: Denominators of 10 & 100



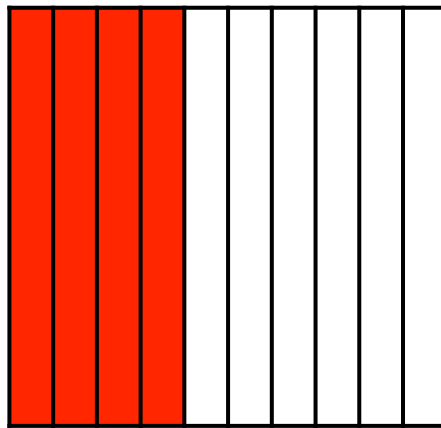
$$\frac{7}{10} =$$



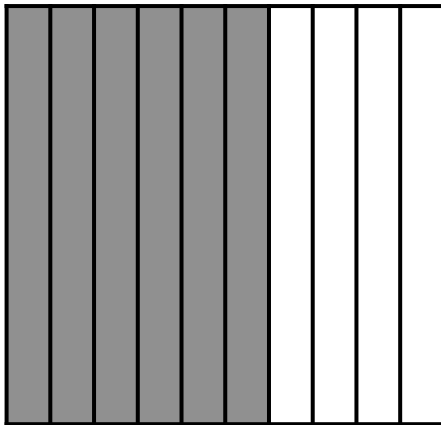
$$\frac{70}{100}$$



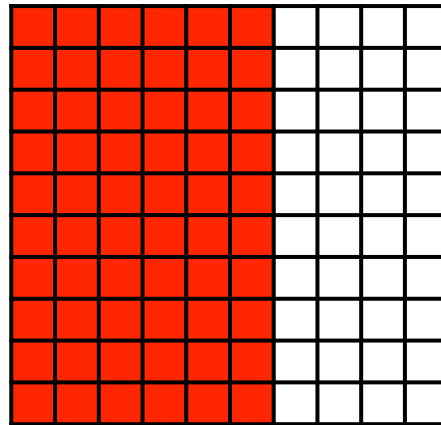
$$\frac{40}{100} =$$



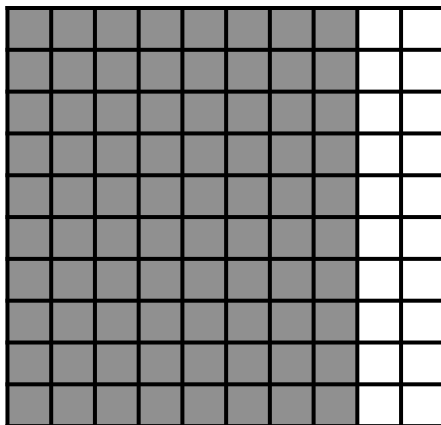
$$\frac{4}{10}$$



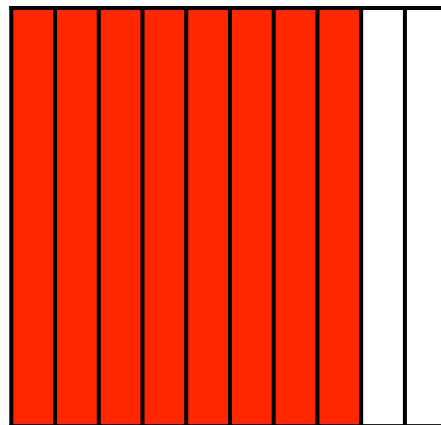
$$\frac{6}{10} =$$



$$\frac{60}{100}$$



$$\frac{80}{100} =$$



$$\frac{8}{10}$$

Equivalent fractions: Denominators of 10 & 100

To find equivalent fractions when the numerators and/or denominators are multiples of 10 or 100, you can multiply or divide by a fraction that has a numerator and denominator of 10.

$$\frac{2}{10} \times \frac{10}{10} = \frac{20}{100}$$

$$\frac{50}{100} \div \frac{10}{10} = \frac{5}{10}$$

{Find an equivalent fraction for each.}

$$\frac{3}{10} = \frac{\quad}{100}$$

$$\frac{60}{100} = \frac{\quad}{10}$$

$$\frac{7}{10} = \frac{\quad}{100}$$

$$\frac{90}{100} = \frac{\quad}{10}$$

$$\frac{1}{10} = \frac{\quad}{100}$$

$$\frac{20}{100} = \frac{\quad}{10}$$

$$\frac{4}{10} = \frac{\quad}{100}$$

$$\frac{80}{100} = \frac{\quad}{10}$$

$$\frac{5}{10} = \frac{\quad}{100}$$

Answer Key

Equivalent fractions: Denominators of 10 & 100

To find equivalent fractions when the numerators and/or denominators are multiples of 10 or 100, you can multiply or divide by a fraction that has a numerator and denominator of 10.

$$\frac{2}{10} \times \frac{10}{10} = \frac{20}{100}$$

$$\frac{50}{100} \div \frac{10}{10} = \frac{5}{10}$$

{Find an equivalent fraction for each.}

$$\frac{3}{10} = \frac{30}{100}$$

$$\frac{60}{100} = \frac{6}{10}$$

$$\frac{7}{10} = \frac{70}{100}$$

$$\frac{90}{100} = \frac{9}{10}$$

$$\frac{1}{10} = \frac{10}{100}$$

$$\frac{20}{100} = \frac{2}{10}$$

$$\frac{4}{10} = \frac{40}{100}$$

$$\frac{80}{100} = \frac{8}{10}$$

$$\frac{5}{10} = \frac{50}{100}$$

Using Multiplication to find Equivalent fractions

To find equivalent fractions, you can multiply a fraction by a fraction that is equivalent to 1. Multiply the numerators and the denominators to find an equivalent fraction.

$$\frac{1}{2} \times \frac{2}{2} = \frac{2}{4} \quad \frac{1}{2} \times \frac{3}{3} = \text{---} \quad \frac{1}{2} \times \frac{4}{4} = \text{---}$$

$$\frac{2}{3} \times \frac{2}{2} = \text{---} \quad \frac{2}{3} \times \frac{4}{4} = \text{---} \quad \frac{2}{3} \times \frac{5}{5} = \text{---}$$

$$\frac{1}{4} \times \frac{2}{2} = \text{---} \quad \frac{1}{4} \times \text{---} = \text{---} \quad \frac{1}{4} \times \text{---} = \text{---}$$

$$\frac{3}{4} \times \frac{2}{2} = \text{---} \quad \frac{3}{4} \times \text{---} = \text{---} \quad \frac{3}{4} \times \text{---} = \text{---}$$

Using Multiplication to find Equivalent fractions

To find equivalent fractions, you can multiply a fraction by a fraction that is equivalent to 1. Multiply the numerators and the denominators to find an equivalent fraction.

$$\frac{1}{2} \times \frac{2}{2} = \frac{2}{4} \quad \frac{1}{2} \times \frac{3}{3} = \frac{3}{6} \quad \frac{1}{2} \times \frac{4}{4} = \frac{4}{8}$$

$$\frac{2}{3} \times \frac{2}{2} = \frac{4}{6} \quad \frac{2}{3} \times \frac{4}{4} = \frac{8}{12} \quad \frac{2}{3} \times \frac{5}{5} = \frac{10}{15}$$

The answers for these problems will vary.

$$\frac{1}{4} \times \frac{2}{2} = \frac{2}{8} \quad \frac{1}{4} \times \frac{3}{3} = \frac{3}{12} \quad \frac{1}{4} \times \frac{4}{4} = \frac{4}{16}$$

$$\frac{3}{4} \times \frac{2}{2} = \frac{6}{8} \quad \frac{3}{4} \times \frac{3}{3} = \frac{9}{12} \quad \frac{3}{4} \times \frac{4}{4} = \frac{12}{16}$$

Using Division to find Equivalent fractions

To find equivalent fractions, you can divide a fraction by a fraction that is equivalent to 1. Divide the numerators and the denominators to find an equivalent fraction.

$$\frac{6}{12} \div \frac{2}{2} = \frac{3}{6}$$

$$\frac{6}{12} \div \frac{3}{3} = \text{---}$$

$$\frac{6}{12} \div \frac{6}{6} = \text{---}$$

$$\frac{6}{10} \div \frac{2}{2} = \text{---}$$

$$\frac{4}{12} \div \frac{4}{4} = \text{---}$$

$$\frac{5}{10} \div \frac{5}{5} = \text{---}$$

$$\frac{2}{8} \div \frac{2}{2} = \text{---}$$

$$\frac{8}{12} \div \frac{2}{2} = \text{---}$$

$$\frac{3}{6} \div \frac{3}{3} = \text{---}$$

$$\frac{3}{12} \div \frac{3}{3} = \text{---}$$

$$\frac{4}{8} \div \frac{4}{4} = \text{---}$$

$$\frac{4}{10} \div \frac{2}{2} = \text{---}$$

Using Division to find Equivalent fractions

To find equivalent fractions, you can divide a fraction by a fraction that is equivalent to 1. Divide the numerators and the denominators to find an equivalent fraction.

$$\frac{6}{12} \div \frac{2}{2} = \frac{3}{6}$$

$$\frac{6}{12} \div \frac{3}{3} = \frac{2}{4}$$

$$\frac{6}{12} \div \frac{6}{6} = \frac{1}{2}$$

$$\frac{6}{10} \div \frac{2}{2} = \frac{3}{5}$$

$$\frac{4}{12} \div \frac{4}{4} = \frac{1}{3}$$

$$\frac{5}{10} \div \frac{5}{5} = \frac{1}{2}$$

$$\frac{2}{8} \div \frac{2}{2} = \frac{1}{4}$$

$$\frac{8}{12} \div \frac{2}{2} = \frac{4}{6}$$

$$\frac{3}{6} \div \frac{3}{3} = \frac{1}{2}$$

$$\frac{3}{12} \div \frac{3}{3} = \frac{1}{4}$$

$$\frac{4}{8} \div \frac{4}{4} = \frac{1}{2}$$

$$\frac{4}{10} \div \frac{2}{2} = \frac{2}{5}$$

Simplest form

To find simplest form, divide the numerator and denominator by the greatest common factor. The greatest common factor is the greatest factor that the numerator and the denominator share.

Examples:

$$\frac{9}{12} \div \frac{3}{3} = \frac{3}{4} \quad \frac{8}{10} \div \frac{2}{2} = \frac{4}{5}$$

Directions: Find simplest form for each fraction.

$$\frac{10}{12} \div \text{---} = \text{---}$$

$$\frac{6}{8} \div \text{---} = \text{---}$$

$$\frac{4}{10} \div \text{---} = \text{---}$$

$$\frac{2}{8} \div \text{---} = \text{---}$$

$$\frac{4}{6} \div \text{---} = \text{---}$$

$$\frac{8}{12} \div \text{---} = \text{---}$$

Simplest form

To find simplest form, divide the numerator and denominator by the greatest common factor. The greatest common factor is the greatest factor that the numerator and the denominator share.

Examples:

$$\frac{9}{12} \div \frac{3}{3} = \frac{3}{4} \quad \frac{8}{10} \div \frac{2}{2} = \frac{4}{5}$$

Directions: Find simplest form for each fraction.

$$\frac{10}{12} \div \frac{2}{2} = \frac{5}{6}$$

$$\frac{6}{8} \div \frac{2}{2} = \frac{3}{4}$$

$$\frac{4}{10} \div \frac{2}{2} = \frac{2}{5}$$

$$\frac{2}{8} \div \frac{2}{2} = \frac{1}{4}$$

$$\frac{4}{6} \div \frac{2}{2} = \frac{2}{3}$$

$$\frac{8}{12} \div \frac{4}{4} = \frac{2}{3}$$

Name: _____ Date: _____ Score: _____

TRUE OR FALSE: Equivalent Fractions

Two-thirds is equal to four-sixths.

$$\frac{2}{3} = \frac{4}{6}$$

True or False?

{ Use models, pictures, and words in the space provided below to prove your answer... }

Answer Key

Name: _____ Date: _____ Score: _____

True or False: Equivalent Fractions

Two-thirds is equal to four-sixths.

$$\frac{2}{3} = \frac{4}{6}$$

True or False?

{ Use models, pictures, and words in the space provided below to prove your answer... }

True.

Responses will vary.

Name: _____ Date: _____ Score: _____

find equivalent fractions

Find 2 or more equivalent fractions for...

$$\frac{1}{4}$$

{ Use models, pictures, arithmetic, and words in the space provided below to prove your answer... }

Name: _____ Date: _____ Score: _____

Mixed Practice: Equivalent Fractions

{ For each fraction given, list 3 equivalent fractions }

$$\frac{1}{3}$$

$$\frac{6}{8}$$

{ Find an equivalent fraction for each. }

$$\frac{8}{10} = \frac{\quad}{100}$$

$$\frac{50}{100} = \frac{\quad}{10}$$

$$\frac{9}{10} = \frac{\quad}{100}$$

{ Find the simplest form of each fraction. }

$$\frac{6}{12} = \frac{\quad}{\quad}$$

$$\frac{2}{6} = \frac{\quad}{\quad}$$

$$\frac{4}{10} = \frac{\quad}{\quad}$$

$$\frac{6}{8} = \frac{\quad}{\quad}$$

$$\frac{8}{10} = \frac{\quad}{\quad}$$

$$\frac{8}{12} = \frac{\quad}{\quad}$$

Answer Key

Name: _____ Date: _____ Score: _____

Mixed Practice: Equivalent Fractions

{ For each fraction given, list 3 equivalent fractions }
The answers for these problems will vary.

$$\frac{1}{3}$$

$$\frac{6}{8}$$

{ Find an equivalent fraction for each. }

$$\frac{8}{10} = \frac{80}{100}$$

$$\frac{50}{100} = \frac{5}{10}$$

$$\frac{9}{10} = \frac{90}{100}$$

{ Find the simplest form of each fraction. }

$$\frac{6}{12} = \frac{1}{2}$$

$$\frac{2}{6} = \frac{1}{3}$$

$$\frac{4}{10} = \frac{2}{5}$$

$$\frac{6}{8} = \frac{3}{4}$$

$$\frac{8}{10} = \frac{4}{5}$$

$$\frac{8}{12} = \frac{2}{3}$$

Name: _____ Date: _____ Score: _____

Equivalent Fractions Quiz

{Use the method of your choice to find an equivalent fraction for each.}

$$\frac{1}{4} = \frac{\quad}{8}$$

$$\frac{2}{3} = \frac{\quad}{6}$$

$$\frac{1}{2} = \frac{\quad}{8}$$

$$\frac{2}{5} = \frac{\quad}{10}$$

$$\frac{1}{2} = \frac{\quad}{6}$$

$$\frac{6}{8} = \frac{\quad}{4}$$

$$1 = \frac{\quad}{5}$$

$$\frac{3}{6} = \frac{\quad}{12}$$

$$\frac{2}{8} = \frac{\quad}{4}$$

$$\frac{3}{5} = \frac{\quad}{10}$$

$$\frac{2}{4} = \frac{\quad}{8}$$

$$\frac{1}{3} = \frac{\quad}{6}$$

$$1 = \frac{\quad}{6}$$

$$\frac{3}{4} = \frac{\quad}{12}$$

$$\frac{2}{4} = \frac{\quad}{6}$$

$$\frac{4}{8} = \frac{\quad}{2}$$

$$\frac{1}{2} = \frac{\quad}{4}$$

$$\frac{2}{3} = \frac{\quad}{12}$$

$$\frac{3}{4} = \frac{\quad}{8}$$

$$\frac{3}{6} = \frac{\quad}{10}$$

Answer Key

Name: _____ Date: _____ Score: _____

Equivalent Fractions Quiz

{Use the method of your choice to find an equivalent fraction for each.}

$$\frac{1}{4} = \frac{2}{8}$$

$$\frac{2}{3} = \frac{4}{6}$$

$$\frac{1}{2} = \frac{4}{8}$$

$$\frac{2}{5} = \frac{4}{10}$$

$$\frac{1}{2} = \frac{3}{6}$$

$$\frac{6}{8} = \frac{3}{4}$$

$$1 = \frac{5}{5}$$

$$\frac{3}{6} = \frac{6}{12}$$

$$\frac{2}{8} = \frac{1}{4}$$

$$\frac{3}{5} = \frac{6}{10}$$

$$\frac{2}{4} = \frac{4}{8}$$

$$\frac{1}{3} = \frac{2}{6}$$

$$1 = \frac{6}{6}$$

$$\frac{3}{4} = \frac{9}{12}$$

$$\frac{2}{4} = \frac{3}{6}$$

$$\frac{4}{8} = \frac{1}{2}$$

$$\frac{1}{2} = \frac{4}{8}$$

$$\frac{2}{3} = \frac{8}{12}$$

$$\frac{3}{4} = \frac{6}{8}$$

$$\frac{3}{6} = \frac{5}{10}$$

Part 3

Comparing

FRACTIONS

STANDARDS: 4.NF.2

DURATION: 2 to 4 days

CONTENTS:

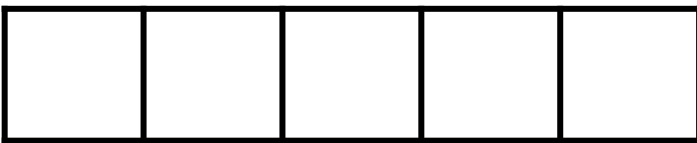
1. Ways to Compare Fractions (3 pages)
2. Comparing with Fraction Bars (2 pages)
3. Comparing with Number Lines (2 pages)
4. Comparing Fractions Chart
5. Comparing Fractions to One-Half
6. Finding Common Denominators
7. Cross Multiplication
8. Ordering Fractions (2 pages)
9. True or False: Comparing Fractions Journal Prompt
10. Comparing Fractions Quiz

TOTAL PAGES: 15

Ways to Compare Fractions

Fraction Bars

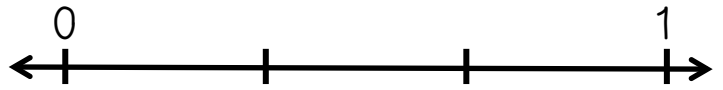
Color the fraction bars to represent each fraction...



Which is the greater fraction?

Number Lines

Represent each fraction on the number lines...

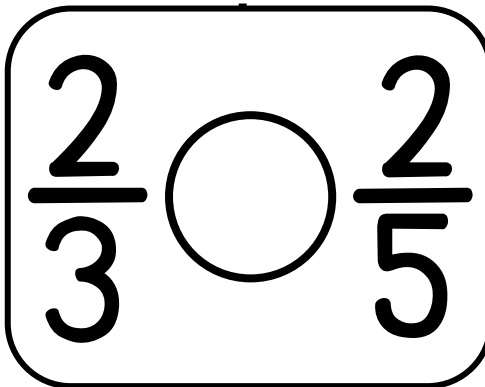


Which fraction is closer to 0?

Which fraction is closer to 1?

Use $\frac{1}{2}$ as a Benchmark

- Is $\frac{2}{3}$ greater or less than $\frac{1}{2}$?
- Is $\frac{2}{5}$ greater or less than $\frac{1}{2}$?
- So, $\frac{2}{3}$ is _____ than $\frac{2}{5}$



Look for Common Numerators or Denominators

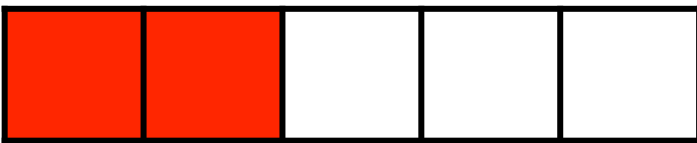
- If the numerators are the same, then the greater the denominator, the smaller the parts.
- If the denominators are the same, then the greater the numerator, the greater the fraction.
- So, $\frac{2}{3}$ is _____ than $\frac{2}{5}$

Answer Key

Ways to Compare Fractions

Fraction Bars

Color the fraction bars to represent each fraction...



Which is the greater fraction?

$\frac{2}{3}$

Number Lines

Represent each fraction on the number lines...



Which fraction is closer to 0? $\frac{2}{5}$

Which fraction is closer to 1? $\frac{2}{3}$

Use $\frac{1}{2}$ as a Benchmark

- Is $\frac{2}{3}$ greater or less than $\frac{1}{2}$?
greater
- Is $\frac{2}{5}$ greater or less than $\frac{1}{2}$?
less
- So, $\frac{2}{3}$ is **greater** than $\frac{2}{5}$

$$\frac{2}{3} > \frac{2}{5}$$

Look for Common Numerators or Denominators

- If the numerators are the same, then the greater the denominator, the smaller the parts.
- If the denominators are the same, then the greater the numerator, the greater the fraction.
- So, $\frac{2}{3}$ is **greater** than $\frac{2}{5}$

Ways to Compare Fractions

Fraction Bars

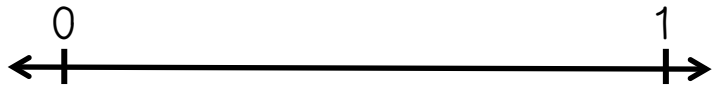
Color the fraction bars to represent each fraction...



Which is the greater fraction?

Number Lines

Represent each fraction on the number lines...

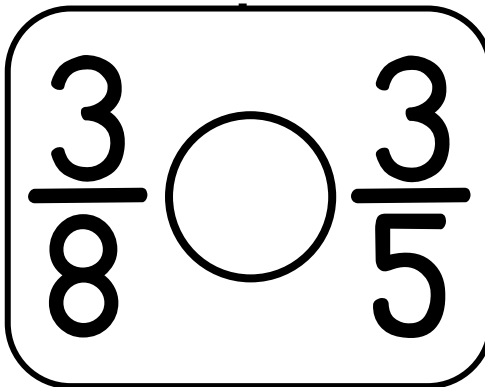


Which fraction is closer to 0?

Which fraction is closer to 1?

Use $\frac{1}{2}$ as a Benchmark

How does each fraction compare to $\frac{1}{2}$?



Look for Common Numerators or Denominators

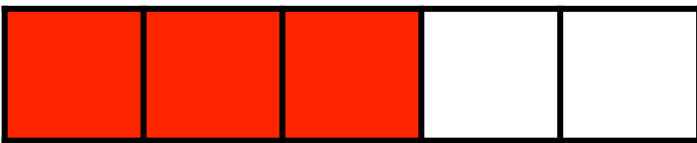
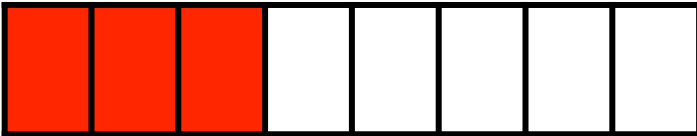
- If the numerators are the same, then the greater the denominator, the smaller the parts.
- If the denominators are the same, then the greater the numerator, the greater the fraction.
- So, _____

Answer Key

Ways to Compare Fractions

Fraction Bars

Color the fraction bars to represent each fraction...



Which is the greater fraction?

$\frac{3}{5}$

Use $\frac{1}{2}$ as a Benchmark

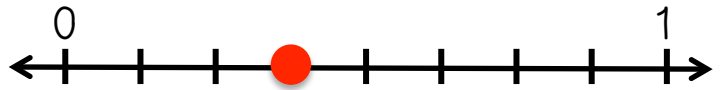
How does each fraction compare to $\frac{1}{2}$?

$\frac{3}{8}$ is less than $\frac{1}{2}$ and $\frac{3}{5}$ is greater than $\frac{1}{2}$, so $\frac{3}{8}$ is less than $\frac{3}{5}$.

$$\frac{3}{8} < \frac{3}{5}$$

Number Lines

Represent each fraction on the number lines...



Which fraction is closer to 0? $\frac{3}{8}$

Which fraction is closer to 1? $\frac{3}{5}$

Look for Common Numerators or Denominators

- If the numerators are the same, then the greater the denominator, the smaller the parts.
- If the denominators are the same, then the greater the numerator, the greater the fraction.
- So, Three-eighths is less than three-fifths.

Ways to Compare Fractions

Fraction Bars

Color the fraction bars to represent each fraction...



Which is the greater fraction?

Number Lines

Represent each fraction on the number lines...

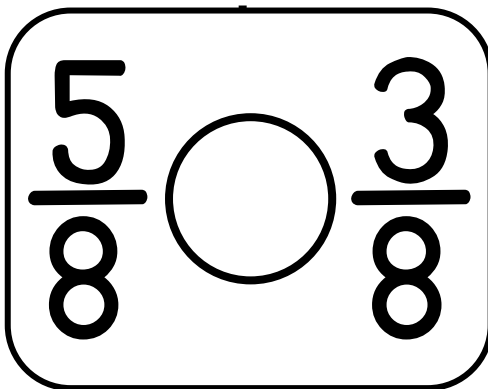


Which fraction is closer to 0?

Which fraction is closer to 1?

Use $\frac{1}{2}$ as a Benchmark

How does each fraction compare to $\frac{1}{2}$?



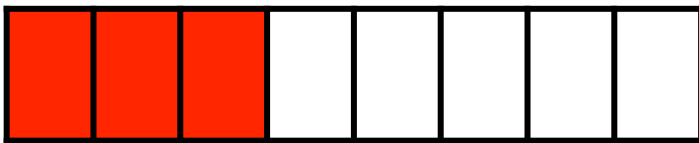
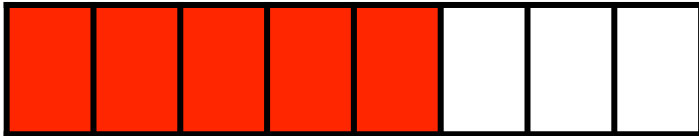
Look for Common Numerators or Denominators

- If the numerators are the same, then the greater the denominator, the smaller the parts.
- If the denominators are the same, then the greater the numerator, the greater the fraction.
- So, _____

Ways to Compare Fractions

Fraction Bars

Color the fraction bars to represent each fraction...

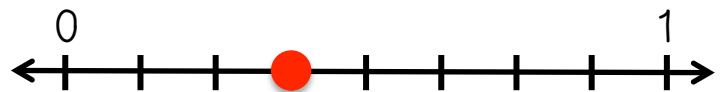
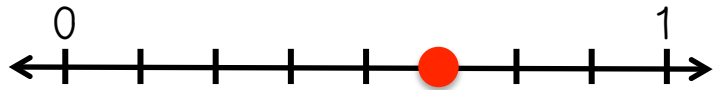


Which is the greater fraction?

$\frac{5}{8}$

Number Lines

Represent each fraction on the number lines...



Which fraction is closer to 0? $\frac{3}{8}$

Which fraction is closer to 1? $\frac{5}{8}$

$$\frac{5}{8} > \frac{3}{8}$$

Use $\frac{1}{2}$ as a Benchmark

How does each fraction compare to $\frac{1}{2}$?

$\frac{5}{8}$ is greater than $\frac{1}{2}$ and $\frac{3}{8}$ is less than $\frac{1}{2}$. So $\frac{5}{8}$ is greater than $\frac{3}{8}$.

Look for Common Numerators or Denominators

- If the numerators are the same, then the greater the denominator, the smaller the parts.
- If the denominators are the same, then the greater the numerator, the greater the fraction.
- So, Five-eighths is greater than three-eighths.

Name: _____ Date: _____ Score: _____

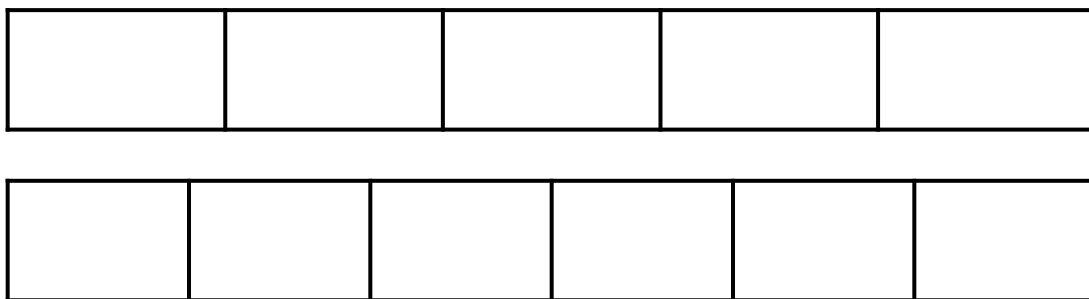
Comparing with Fraction Bars

{Color the fraction bars to represent each fraction. Then compare.}

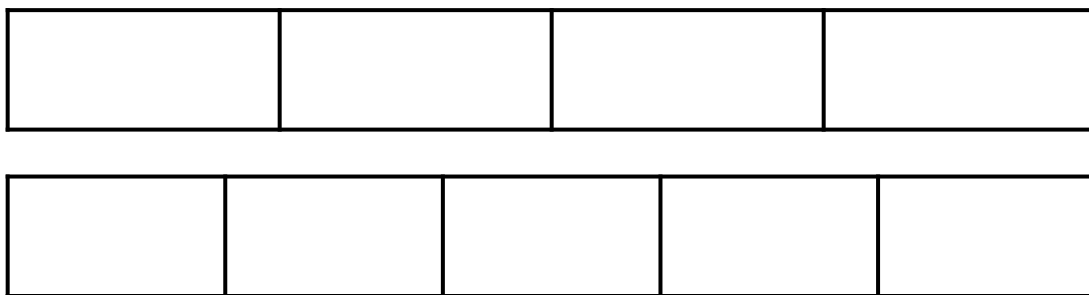
$$\frac{2}{3} \bigcirc \frac{3}{6}$$



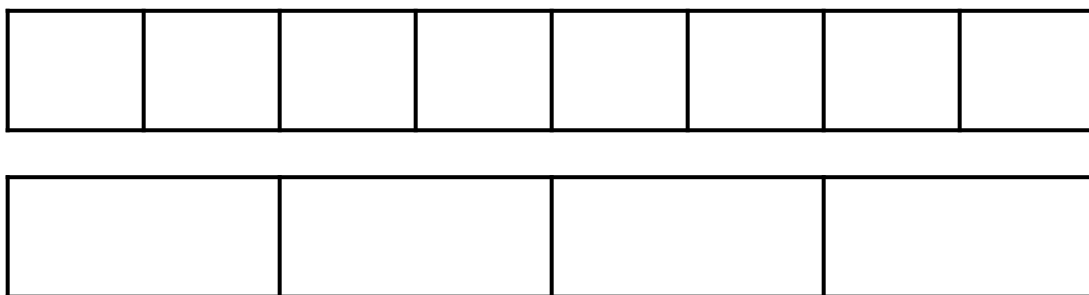
$$\frac{3}{5} \bigcirc \frac{4}{6}$$



$$\frac{3}{4} \bigcirc \frac{4}{5}$$



$$\frac{3}{8} \bigcirc \frac{2}{4}$$



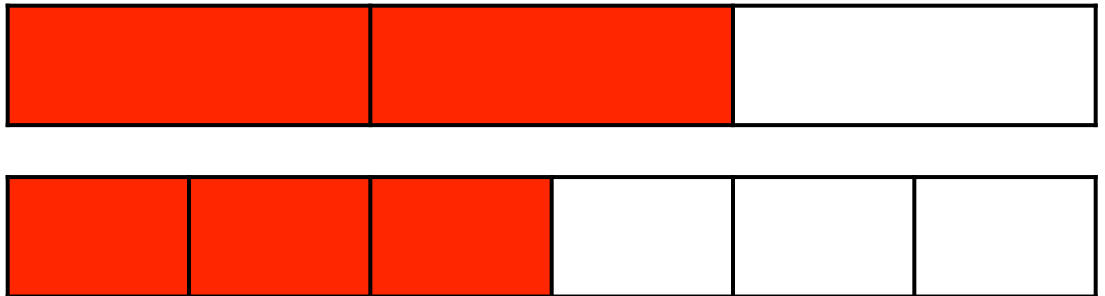
Answer Key

Name: _____ Date: _____ Score: _____

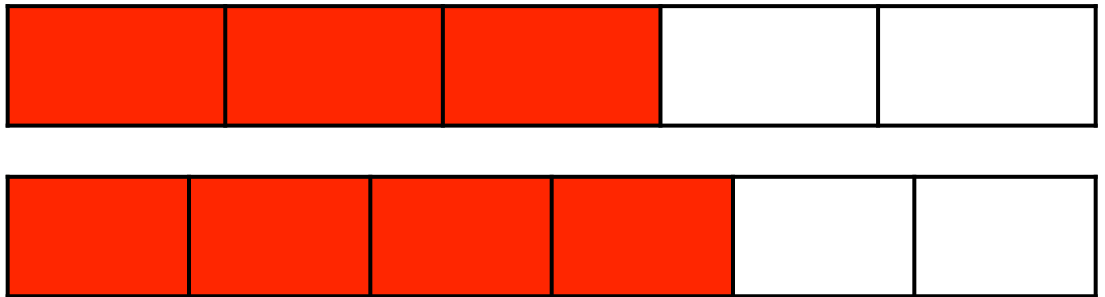
Comparing with Fraction Bars

{Color the fraction bars to represent each fraction. Then compare.}

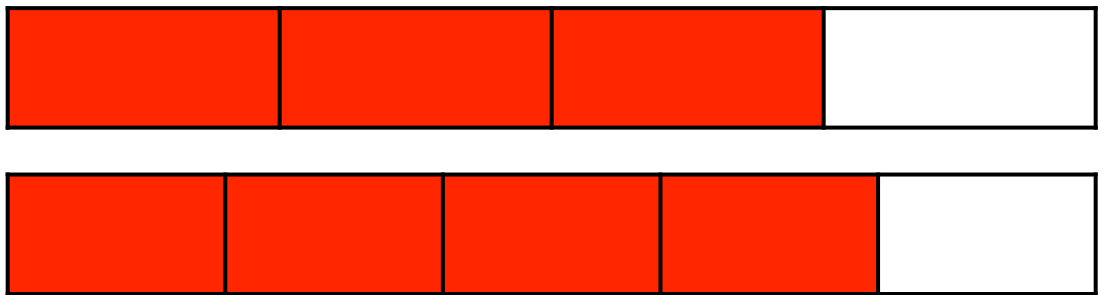
$$\frac{2}{3} > \frac{3}{6}$$



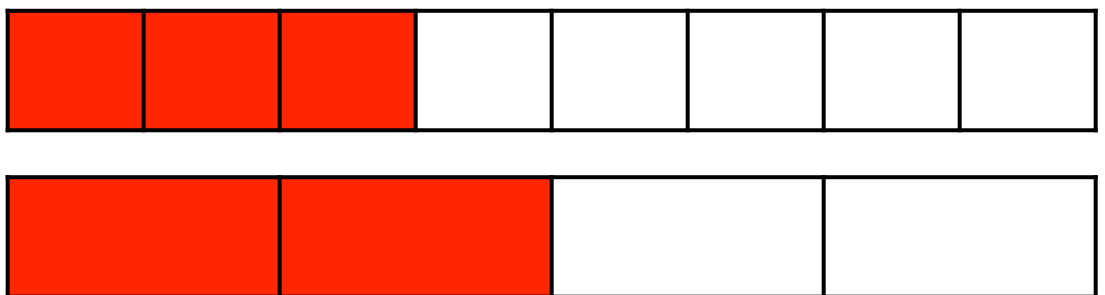
$$\frac{3}{5} < \frac{4}{6}$$



$$\frac{3}{4} < \frac{4}{5}$$



$$\frac{3}{8} < \frac{2}{4}$$



Name: _____ Date: _____ Score: _____

COMPARING WITH FRACTION BARS #2

{Color the fraction bars to represent each fraction. Then compare.}

$$\frac{2}{5} \bigcirc \frac{3}{8}$$

--	--	--	--	--

--	--	--	--	--	--	--	--

$$\frac{5}{8} \bigcirc \frac{5}{6}$$

--	--	--	--	--	--	--	--

--	--	--	--	--	--

$$\frac{2}{4} \bigcirc \frac{4}{8}$$

--	--	--	--

--	--	--	--	--	--	--	--

$$\frac{7}{8} \bigcirc \frac{3}{4}$$

--	--	--	--	--	--	--	--

--	--	--	--

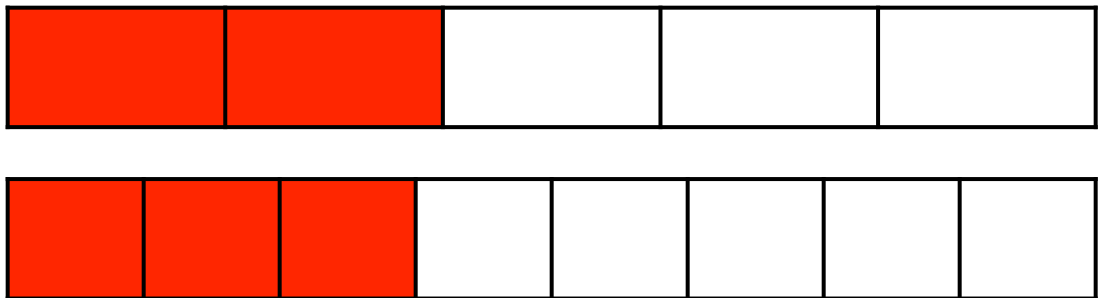
Answer Key

Name: _____ Date: _____ Score: _____

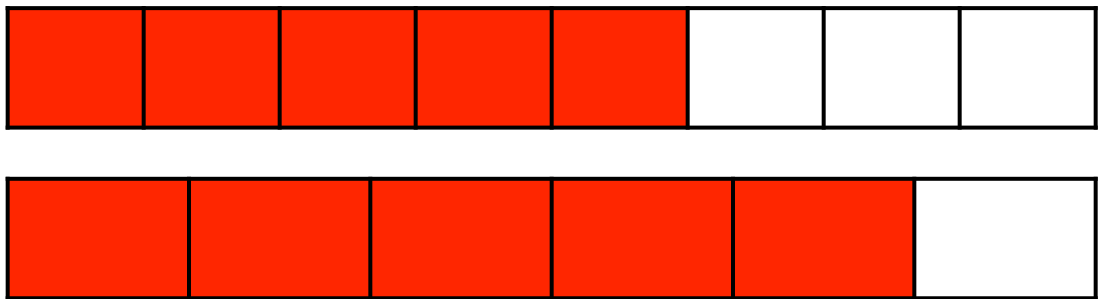
Comparing with Fraction Bars #2

{Color the fraction bars to represent each fraction. Then compare.}

$$\frac{2}{5} > \frac{3}{8}$$



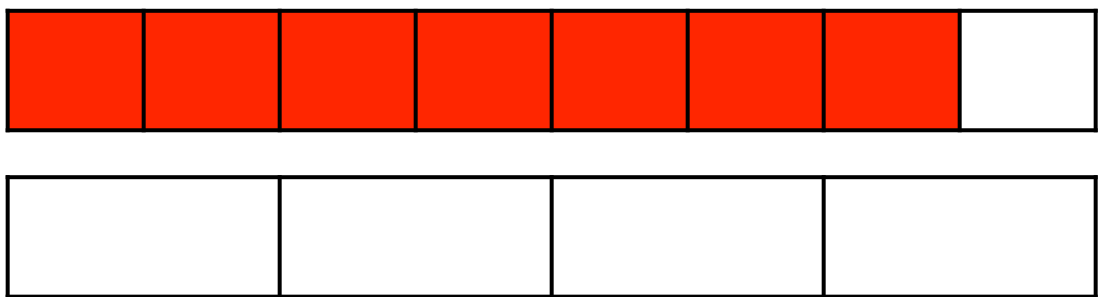
$$\frac{5}{8} < \frac{5}{6}$$



$$\frac{2}{4} = \frac{4}{8}$$



$$\frac{7}{8} > \frac{3}{4}$$



Name: _____ Date: _____ Score: _____

Comparing with Number Lines

{ Use the number lines to represent each fraction. Then compare. }

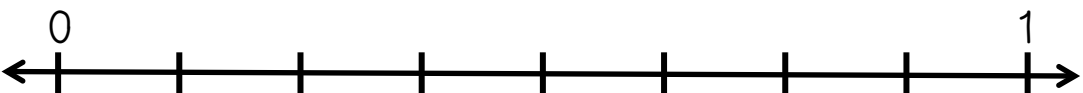
$$\frac{2}{4} \bigcirc \frac{3}{6}$$



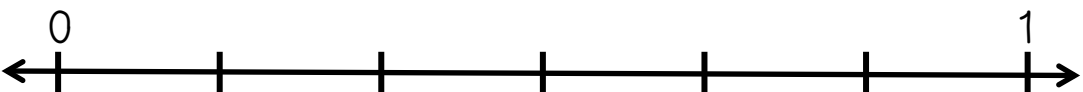
$$\frac{3}{5} \bigcirc \frac{3}{4}$$



$$\frac{2}{3} \bigcirc \frac{3}{8}$$



$$\frac{2}{5} \bigcirc \frac{4}{6}$$



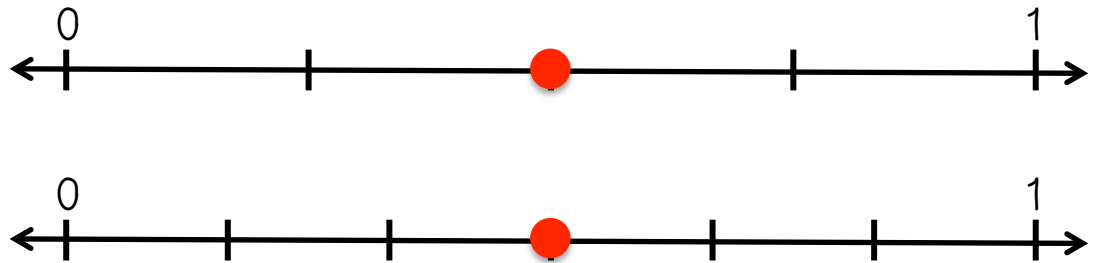
Answer Key

Name: _____ Date: _____ Score: _____

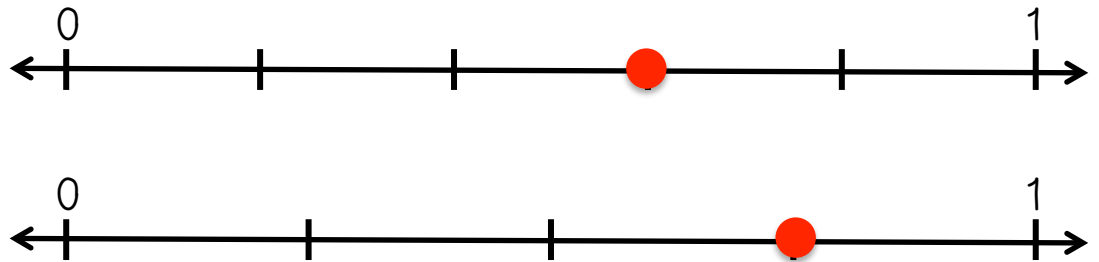
Comparing with Number Lines

{ Use the number lines to represent each fraction. Then compare. }

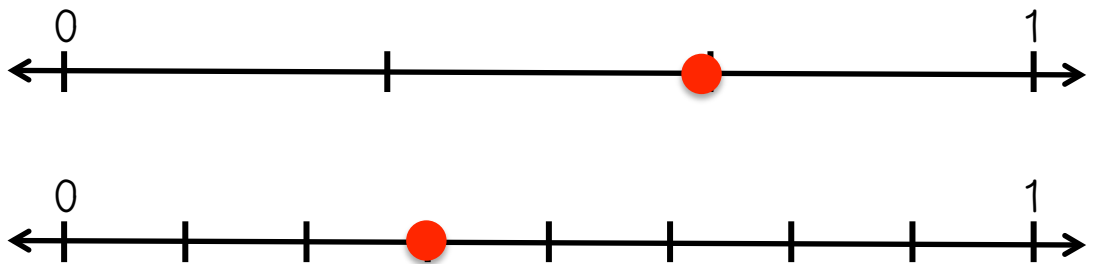
$$\frac{2}{4} = \frac{3}{6}$$



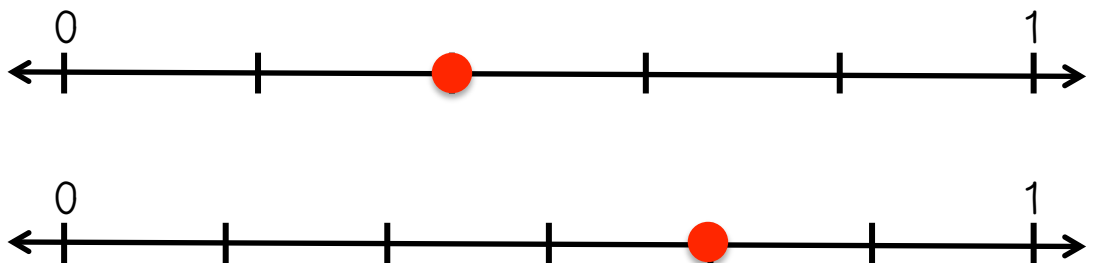
$$\frac{3}{5} < \frac{3}{4}$$



$$\frac{2}{3} > \frac{3}{8}$$



$$\frac{2}{5} < \frac{4}{6}$$



Name: _____ Date: _____ Score: _____

Comparing with Number Lines #2

{ Use the number lines to represent each fraction. Then compare. }

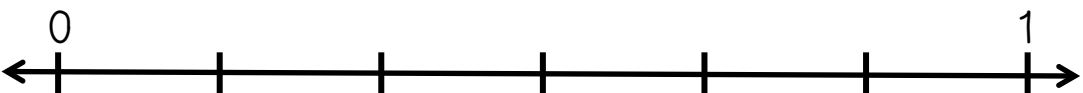
$$\frac{5}{5} \bigcirc \frac{3}{4}$$



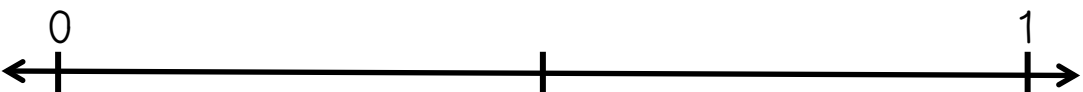
$$\frac{5}{6} \bigcirc \frac{7}{8}$$



$$\frac{2}{3} \bigcirc \frac{4}{6}$$



$$\frac{3}{5} \bigcirc \frac{1}{2}$$



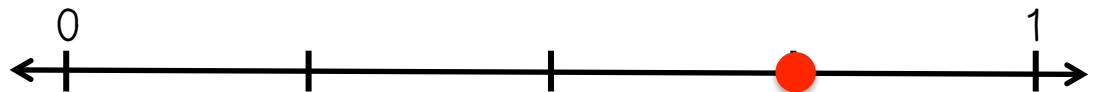
Answer Key

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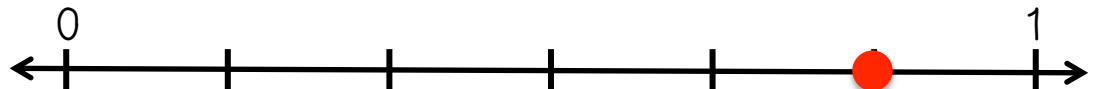
Comparing with Number Lines #2

{ Use the number lines to represent each fraction. Then compare. }

$$\frac{5}{5} > \frac{3}{4}$$



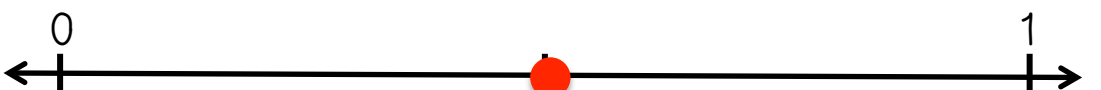
$$\frac{5}{6} < \frac{7}{8}$$



$$\frac{2}{3} = \frac{4}{6}$$



$$\frac{3}{5} > \frac{1}{2}$$



Comparing Fractions Chart

{ Use the fraction chart to compare the fractions below. }

$\frac{1}{2}$					$\frac{2}{2}$					
$\frac{1}{3}$			$\frac{2}{3}$			$\frac{3}{3}$				
$\frac{1}{4}$		$\frac{2}{4}$		$\frac{3}{4}$		$\frac{4}{4}$				
$\frac{1}{5}$		$\frac{2}{5}$		$\frac{3}{5}$		$\frac{4}{5}$		$\frac{5}{5}$		
$\frac{1}{6}$		$\frac{2}{6}$		$\frac{3}{6}$		$\frac{4}{6}$		$\frac{5}{6}$		$\frac{6}{6}$
$\frac{1}{8}$	$\frac{2}{8}$	$\frac{3}{8}$	$\frac{4}{8}$	$\frac{5}{8}$	$\frac{6}{8}$	$\frac{7}{8}$	$\frac{8}{8}$			
$\frac{1}{10}$	$\frac{2}{10}$	$\frac{3}{10}$	$\frac{4}{10}$	$\frac{5}{10}$	$\frac{6}{10}$	$\frac{7}{10}$	$\frac{8}{10}$	$\frac{9}{10}$	$\frac{10}{10}$	

$$\frac{2}{5} \bigcirc \frac{5}{8}$$

$$\frac{3}{10} \bigcirc \frac{2}{6}$$

$$\frac{2}{3} \bigcirc \frac{3}{5}$$

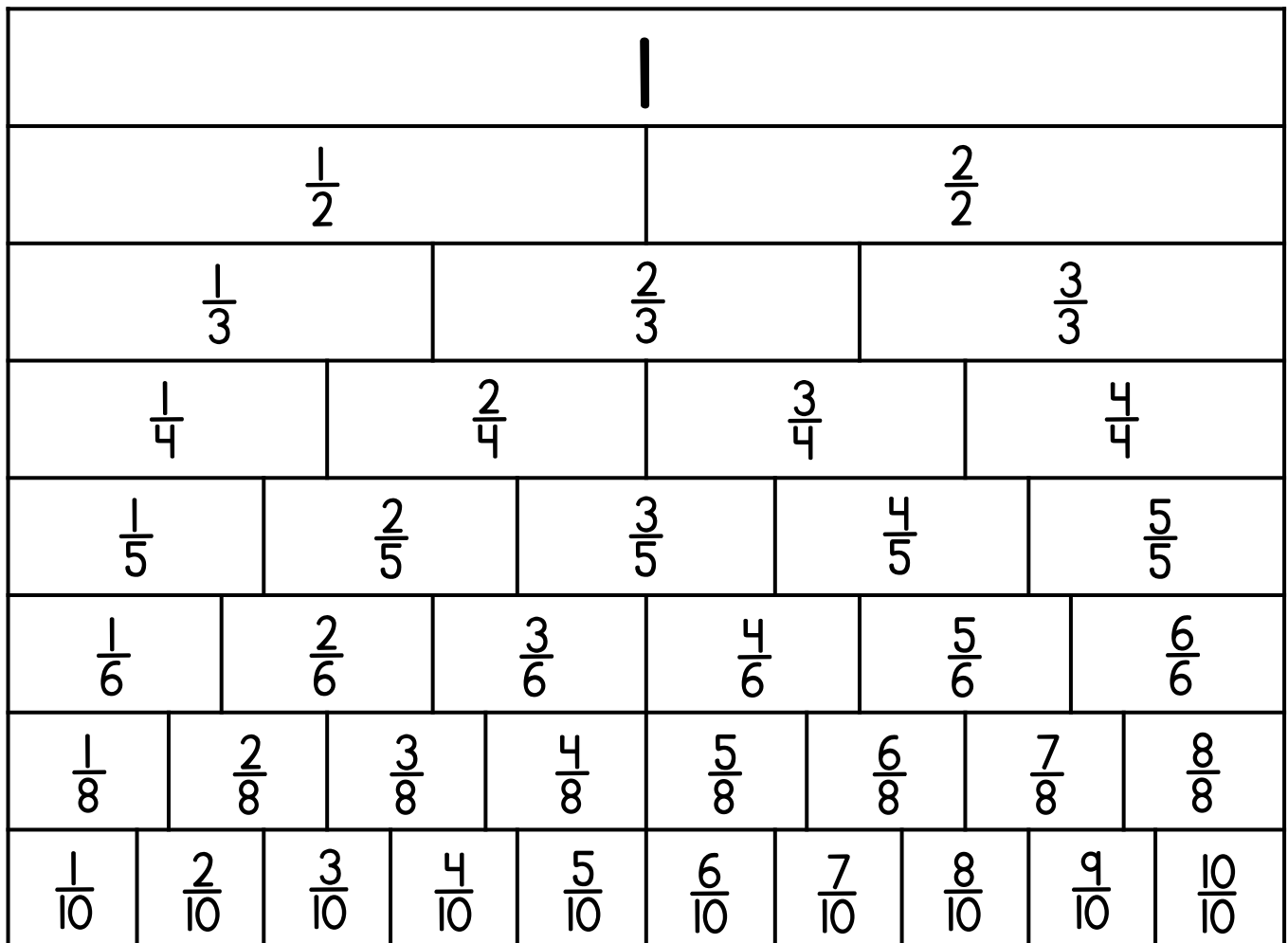
$$\frac{3}{4} \bigcirc \frac{4}{6}$$

$$\frac{2}{8} \bigcirc \frac{1}{3}$$

$$\frac{2}{5} \bigcirc \frac{3}{10}$$

Comparing Fractions Chart

{ Use the fraction chart to compare the fractions below. }



$$\frac{2}{5} < \frac{5}{8}$$

$$\frac{3}{10} < \frac{2}{6}$$

$$\frac{2}{3} > \frac{3}{5}$$

$$\frac{3}{4} > \frac{4}{6}$$

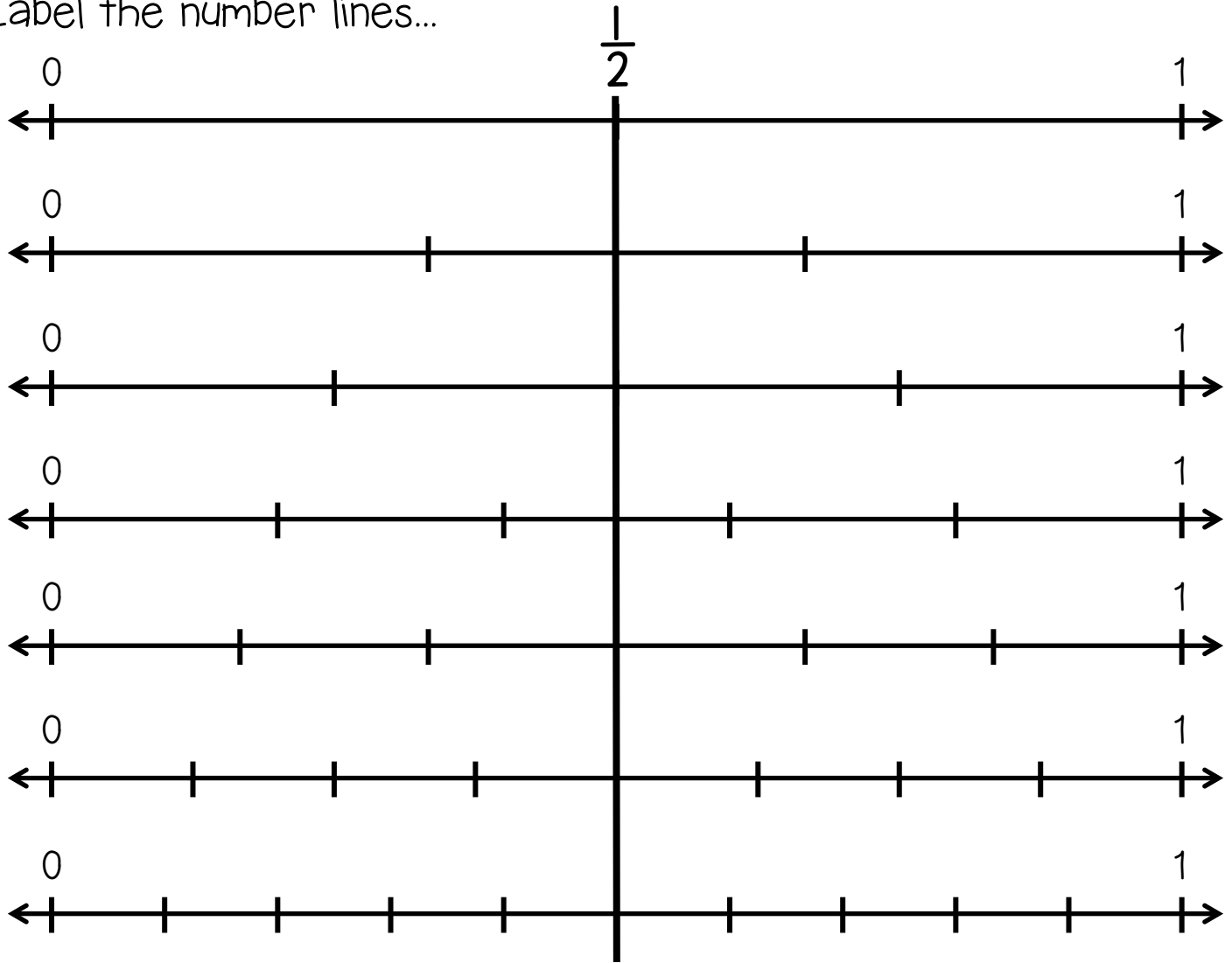
$$\frac{2}{8} > \frac{1}{3}$$

$$\frac{2}{5} > \frac{3}{10}$$

Name: _____ Date: _____ Score: _____

Comparing Fractions to One-Half

Label the number lines...



Tell whether each fraction is greater than, less than, or equal to $\frac{1}{2}$.

$\frac{2}{3}$ _____ $\frac{3}{5}$ _____ $\frac{3}{8}$ _____

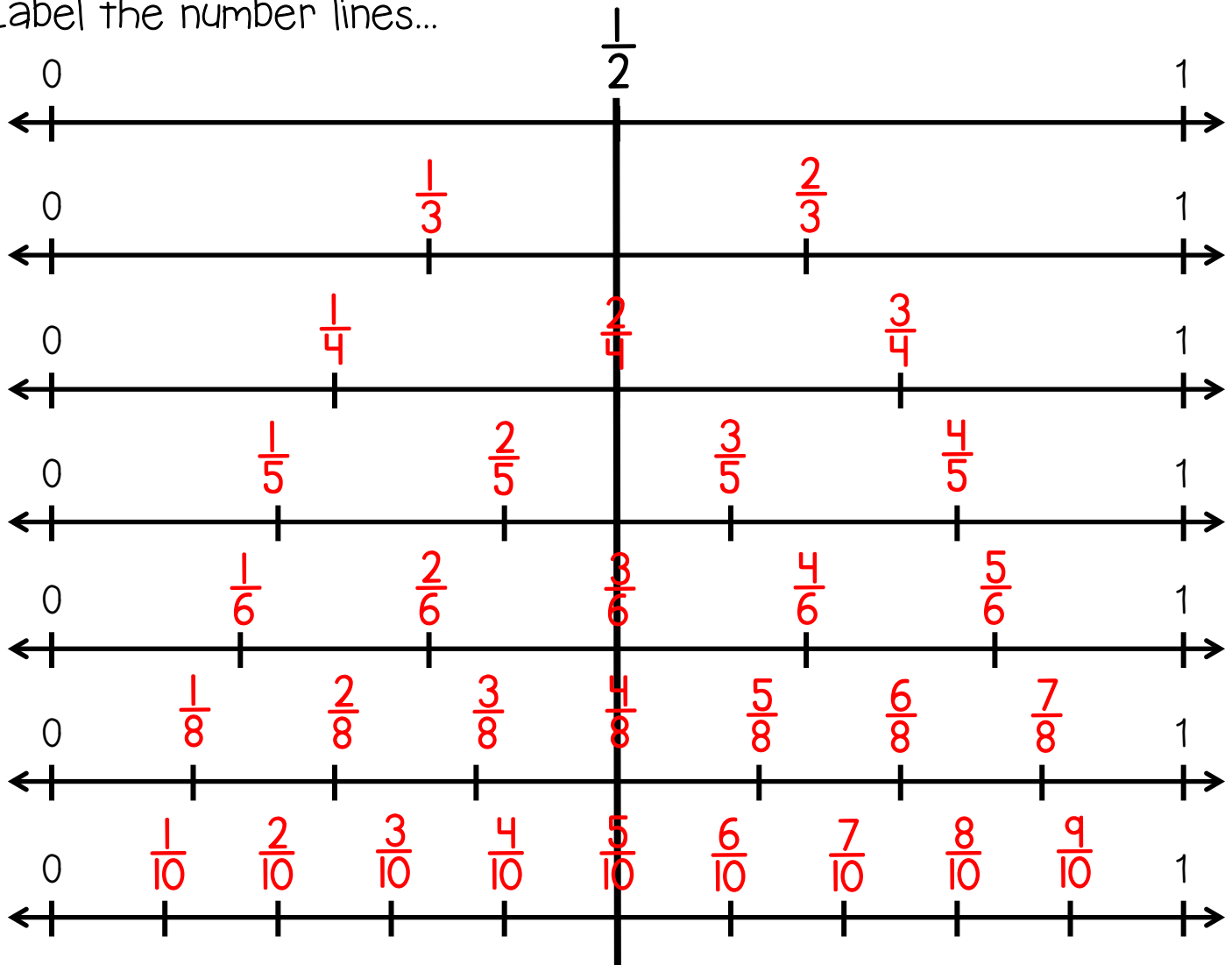
$\frac{2}{4}$ _____ $\frac{2}{6}$ _____ $\frac{6}{10}$ _____

Answer Key

Name: _____ Date: _____ Score: _____

Comparing Fractions to One-Half

Label the number lines...



Tell whether each fraction is greater than, less than, or equal to $\frac{1}{2}$.

$\frac{2}{3}$ greater than $\frac{3}{5}$ greater than $\frac{3}{8}$ less than

$\frac{2}{4}$ equal to $\frac{2}{6}$ less than $\frac{6}{10}$ greater than

Name: _____ Date: _____ Score: _____

finding Common Denominators

Multiply both fractions by a fraction that is equivalent to 1, and so that each will have the same denominator.

$$\frac{3}{4} \text{ ? } \frac{2}{3}$$

$$\frac{3}{4} \times \frac{3}{3} = \frac{9}{12}$$

$$\frac{2}{3} \times \frac{4}{4} = \frac{8}{12}$$

$$\frac{9}{12} > \frac{8}{12} \quad \text{So...} \quad \frac{3}{4} > \frac{2}{3}$$

Directions: Find common denominators to compare the fractions.

$$\frac{1}{4} \bigcirc \frac{1}{3}$$

$$\frac{1}{2} \bigcirc \frac{3}{8}$$

$$\frac{5}{8} \bigcirc \frac{3}{4}$$

$$\frac{3}{4} \bigcirc \frac{5}{6}$$

$$\frac{4}{10} \bigcirc \frac{3}{5}$$

$$\frac{8}{10} \bigcirc \frac{4}{5}$$

Answer Key

Name: _____ Date: _____ Score: _____

finding Common Denominators

Multiply both fractions by a fraction that is equivalent to 1, and so that each will have the same denominator.

$$\frac{3}{4} \text{ ? } \frac{2}{3}$$

$$\frac{3}{4} \times \frac{3}{3} = \frac{9}{12} \quad \frac{2}{3} \times \frac{4}{4} = \frac{8}{12}$$

$$\frac{9}{12} > \frac{8}{12} \quad \text{So...} \quad \frac{3}{4} > \frac{2}{3}$$

Directions: Find common denominators to compare the fractions.

$$\frac{1}{4} < \frac{1}{3}$$

$$\frac{1}{2} > \frac{3}{8}$$

$$\frac{5}{8} < \frac{3}{4}$$

$$\frac{3}{4} < \frac{5}{6}$$

$$\frac{4}{10} < \frac{3}{5}$$

$$\frac{8}{10} = \frac{4}{5}$$

Name: _____ Date: _____ Score: _____

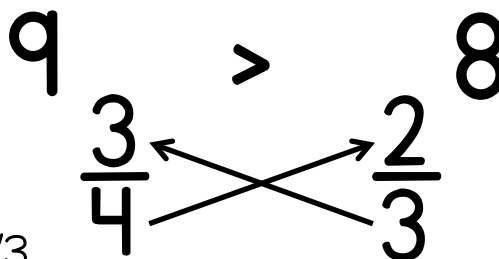
Cross Multiplication

Example:

Multiply 4×2 and 3×3 .

Compare the products.

Therefore, $3/4$ is greater than $2/3$



Directions: Use the Cross Multiplication Method to compare the fractions.

$$\frac{2}{3} \bigcirc \frac{1}{2}$$

$$\frac{1}{3} \bigcirc \frac{2}{5}$$

$$\frac{3}{4} \bigcirc \frac{3}{5}$$

$$\frac{5}{6} \bigcirc \frac{4}{5}$$

$$\frac{2}{8} \bigcirc \frac{1}{2}$$

$$\frac{2}{3} \bigcirc \frac{3}{10}$$

$$\frac{8}{10} \bigcirc \frac{4}{6}$$

$$\frac{2}{3} \bigcirc \frac{3}{5}$$

$$\frac{1}{3} \bigcirc \frac{2}{5}$$

Answer Key

Name: _____ Date: _____ Score: _____

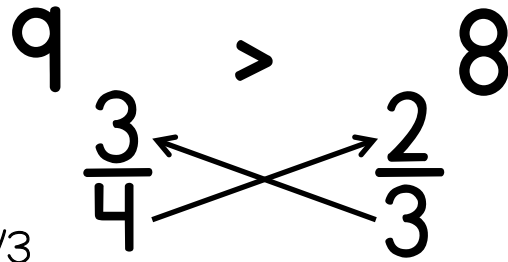
Cross Multiplication

Example:

Multiply 4×2 and 3×3 .

Compare the products.

Therefore, $3/4$ is greater than $2/3$



Directions: Use the Cross Multiplication Method to compare the fractions.

$$\frac{2}{3} > \frac{1}{2}$$

$$\frac{1}{3} < \frac{2}{5}$$

$$\frac{3}{4} > \frac{3}{5}$$

$$\frac{5}{6} > \frac{4}{5}$$

$$\frac{2}{8} < \frac{1}{2}$$

$$\frac{2}{3} > \frac{3}{10}$$

$$\frac{8}{10} > \frac{4}{6}$$

$$\frac{2}{3} > \frac{3}{5}$$

$$\frac{1}{3} < \frac{2}{5}$$

Name: _____ Date: _____ Score: _____

Ordering fractions #1

{ Use your understanding of comparing fractions, to order each set of fractions from least to greatest. }

$$\frac{5}{6} \quad \frac{3}{8} \quad \frac{2}{3}$$

$$\frac{5}{8} \quad \frac{8}{10} \quad \frac{1}{2}$$

$$\frac{2}{4} \quad \frac{3}{5} \quad \frac{4}{10}$$

$$\frac{2}{3} \quad \frac{3}{4} \quad \frac{3}{6}$$

$$\frac{3}{8} \quad \frac{4}{6} \quad \frac{2}{4}$$

Answer Key

Name: _____ Date: _____ Score: _____

Ordering fractions #1

{ Use your understanding of comparing fractions, to order each set of fractions from least to greatest. }

$$\frac{5}{6} \quad \frac{3}{8} \quad \frac{2}{3} \quad \frac{3}{8} \quad \frac{2}{3} \quad \frac{5}{6}$$

$$\frac{5}{8} \quad \frac{8}{10} \quad \frac{1}{2} \quad \frac{1}{2} \quad \frac{5}{8} \quad \frac{8}{10}$$

$$\frac{2}{4} \quad \frac{3}{5} \quad \frac{4}{10} \quad \frac{4}{10} \quad \frac{2}{4} \quad \frac{3}{5}$$

$$\frac{2}{3} \quad \frac{3}{4} \quad \frac{3}{6} \quad \frac{3}{6} \quad \frac{2}{3} \quad \frac{3}{4}$$

$$\frac{3}{8} \quad \frac{4}{6} \quad \frac{2}{4} \quad \frac{3}{8} \quad \frac{2}{4} \quad \frac{4}{6}$$

Name: _____ Date: _____ Score: _____

Ordering fractions #2

{ Use your understanding of comparing fractions, to order each set of fractions from greatest to least. }

$$\frac{1}{2} \quad \frac{1}{5} \quad \frac{3}{8} \quad \underline{\hspace{10em}}$$

$$\frac{2}{5} \quad \frac{2}{3} \quad \frac{6}{10} \quad \underline{\hspace{10em}}$$

$$\frac{2}{6} \quad \frac{2}{3} \quad \frac{3}{10} \quad \underline{\hspace{10em}}$$

$$\frac{3}{4} \quad \frac{5}{6} \quad \frac{2}{5} \quad \underline{\hspace{10em}}$$

$$\frac{4}{10} \quad \frac{5}{8} \quad \frac{2}{6} \quad \underline{\hspace{10em}}$$

Answer Key

Name: _____ Date: _____ Score: _____

Ordering Fractions #2

{ Use your understanding of comparing fractions, to order each set of fractions from greatest to least. }

$$\frac{1}{2} \quad \frac{1}{5} \quad \frac{3}{8} \quad \frac{1}{2} \quad \frac{1}{5} \quad \frac{3}{8}$$

$$\frac{2}{5} \quad \frac{2}{3} \quad \frac{6}{10} \quad \frac{2}{5} \quad \frac{6}{10} \quad \frac{2}{3}$$

$$\frac{2}{6} \quad \frac{2}{3} \quad \frac{3}{10} \quad \frac{3}{10} \quad \frac{2}{6} \quad \frac{2}{3}$$

$$\frac{3}{4} \quad \frac{5}{6} \quad \frac{2}{5} \quad \frac{2}{5} \quad \frac{3}{4} \quad \frac{5}{6}$$

$$\frac{4}{10} \quad \frac{5}{8} \quad \frac{2}{6} \quad \frac{2}{6} \quad \frac{4}{10} \quad \frac{5}{8}$$

Name: _____ Date: _____ Score: _____

TRUE OR FALSE: COMPARING FRACTIONS

Three-eighths is greater than four-sixths.

$$\frac{3}{8} > \frac{4}{6}$$

True or False?

{ Use models, pictures, and words in the space provided below to prove your answer... }

Answer Key

Name: _____ Date: _____ Score: _____

True or False: Comparing Fractions

Three-eighths is greater than four-sixths.

$$\frac{3}{8} > \frac{4}{6}$$

True or False?

{ Use models, pictures, and words in the space provided below to prove your answer... }

False

Responses will vary.

Name: _____ Date: _____ Score: _____

Comparing & Ordering Fractions Quiz

{Use <, >, or = to compare the fractions.}

$$\frac{5}{6} \bigcirc \frac{1}{2}$$

$$\frac{1}{3} \bigcirc \frac{2}{6}$$

$$\frac{3}{5} \bigcirc \frac{2}{6}$$

$$\frac{6}{10} \bigcirc \frac{4}{6}$$

$$\frac{2}{8} \bigcirc \frac{2}{3}$$

$$\frac{5}{6} \bigcirc \frac{3}{10}$$

$$\frac{1}{2} \bigcirc \frac{5}{8}$$

$$\frac{2}{3} \bigcirc \frac{2}{5}$$

$$\frac{4}{6} \bigcirc \frac{2}{3}$$

{Order each set of fractions from least to greatest.}

$$\frac{2}{3} \quad \frac{7}{8} \quad \frac{2}{4} \quad \underline{\hspace{10em}}$$

$$\frac{3}{10} \quad \frac{6}{8} \quad \frac{2}{5} \quad \underline{\hspace{10em}}$$

Answer Key

Name: _____ Date: _____ Score: _____

Comparing & Ordering Fractions Quiz

{Use <, >, or = to compare the fractions.}

$$\frac{5}{6} > \frac{1}{2}$$

$$\frac{1}{3} = \frac{2}{6}$$

$$\frac{3}{5} > \frac{2}{6}$$

$$\frac{6}{10} < \frac{4}{6}$$

$$\frac{2}{8} < \frac{2}{3}$$

$$\frac{5}{6} > \frac{3}{10}$$

$$\frac{1}{2} < \frac{5}{8}$$

$$\frac{2}{3} > \frac{2}{5}$$

$$\frac{4}{6} = \frac{2}{3}$$

{Order each set of fractions from least to greatest.}

$$\frac{2}{3} \quad \frac{7}{8} \quad \frac{2}{4} \quad \frac{2}{4} \quad \frac{2}{3} \quad \frac{7}{8}$$

$$\frac{3}{10} \quad \frac{6}{8} \quad \frac{2}{5} \quad \frac{3}{10} \quad \frac{2}{5} \quad \frac{6}{8}$$

Part 4

Adding & Subtracting

FRACTIONS

STANDARDS: 4.NF.3, 4.NF.5

DURATION: 4 to 6 days

CONTENTS:

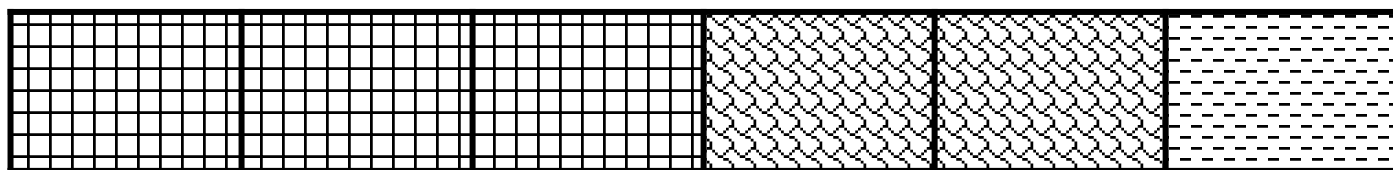
1. Decomposing Fractions (4 pages)
2. Decomposing Mixed Numbers
3. Decomposing Fractions Journal Prompt
4. Decomposing Fractions Quiz
5. Converting Mixed Numbers to Improper Fractions
6. Converting Improper Fractions to Mixed Numbers
7. Adding Fractions
8. Subtracting Fractions
9. Adding Mixed Numbers
10. Subtracting Mixed Numbers
11. Word Problems: Add & Subtract Fractions
12. Word Problems: Add & Subtract Mixed Numbers
13. Create Your Own Word Problems: Adding & Subtracting Fractions
14. Adding Fractions with Denominators of 10 & 100
15. Mixed Practice: Adding & Subtracting Fractions
16. Adding & Subtracting Fractions Quiz

TOTAL PAGES: 19

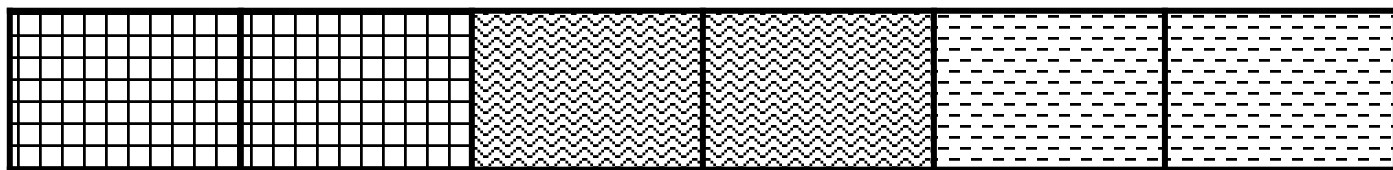
Decomposing fractions

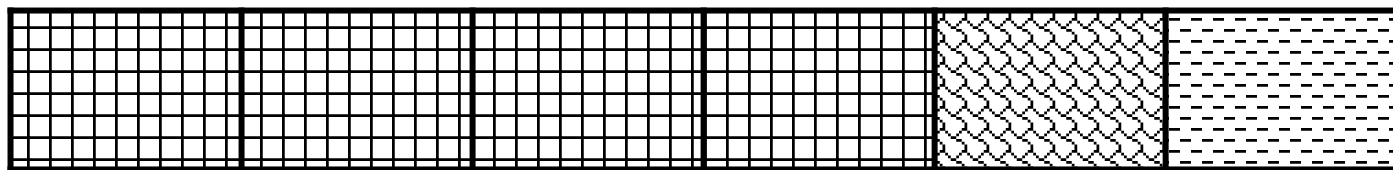
$\frac{6}{6}$

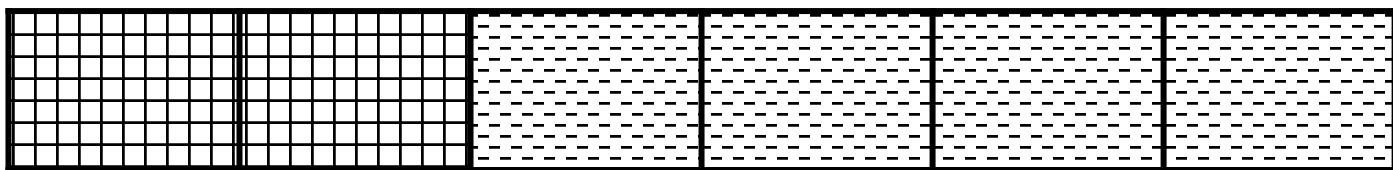
$\frac{6}{6}$ is decomposed in 4 different ways, using the fraction bars below. Write an equation to match each of the fraction bars. The first one has been done for you.



$$\frac{3}{6} + \frac{2}{6} + \frac{1}{6} = \frac{6}{6}$$



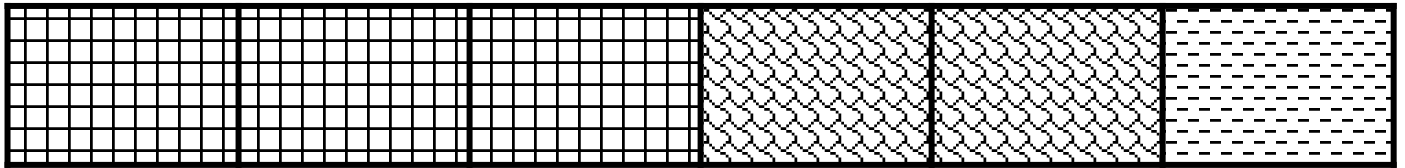




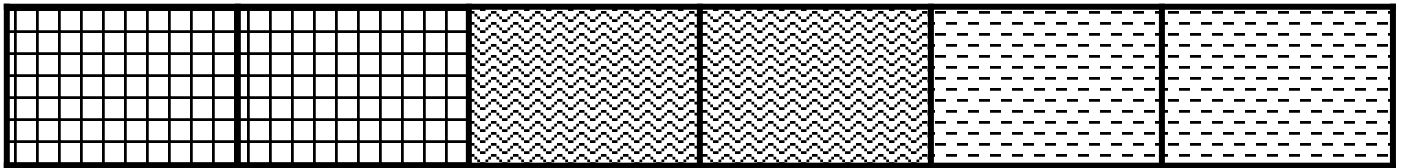
Decomposing Fractions

$$\frac{6}{6}$$

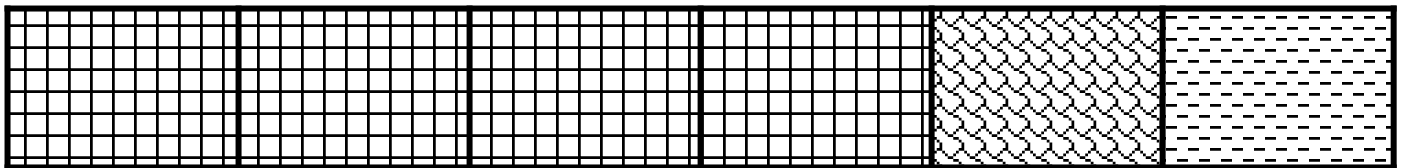
$\frac{6}{6}$ is decomposed in 4 different ways, using the fraction bars below. Write an equation to match each of the fraction bars. The first one has been done for you.



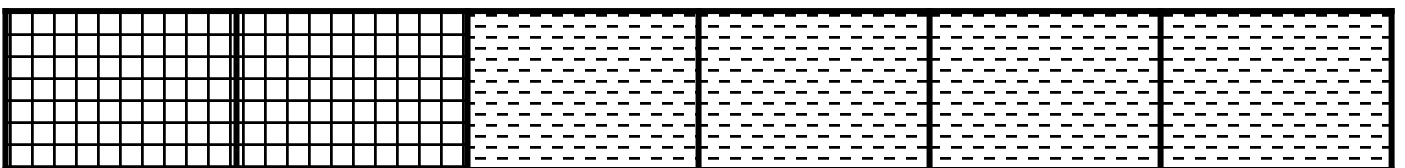
$$\frac{3}{6} + \frac{2}{6} + \frac{1}{6} = \frac{6}{6}$$



$$\frac{2}{6} + \frac{2}{6} + \frac{2}{6} = \frac{6}{6}$$



$$\frac{4}{6} + \frac{1}{6} + \frac{1}{6} = \frac{6}{6}$$



$$\frac{2}{6} + \frac{4}{6} = \frac{6}{6}$$

Decomposing fractions

$$\frac{8}{8}$$

Use the fraction bars, to decompose $\frac{8}{8}$ in 4 different ways. Use different colors for the different parts. Then write an equation to represent each decomposed fraction.

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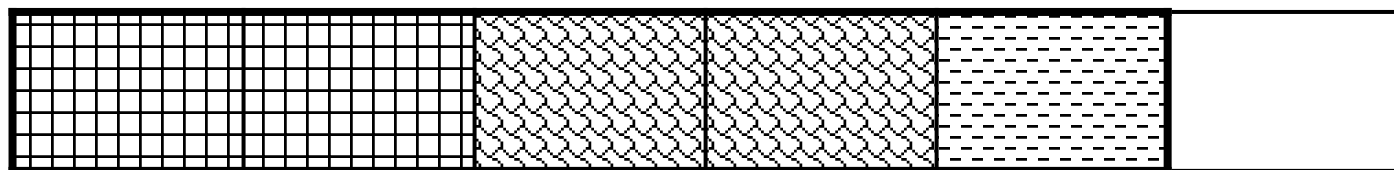
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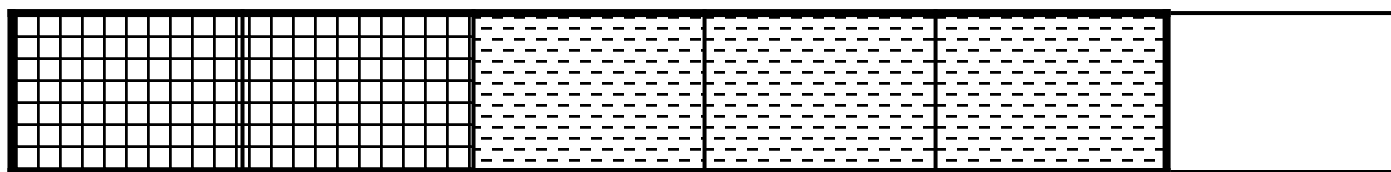
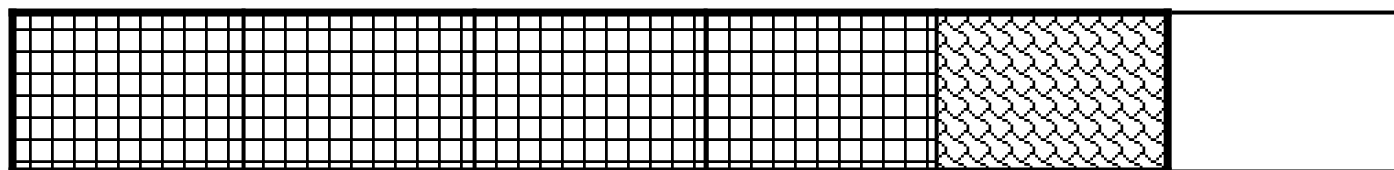
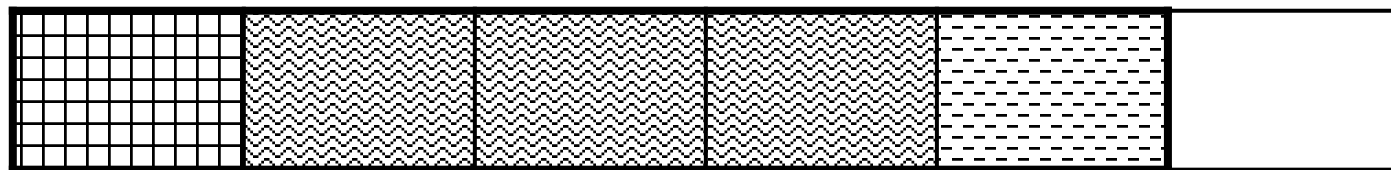
Decomposing fractions

$\frac{5}{6}$

$\frac{5}{6}$ is decomposed in 4 different ways, using the fraction bars below. Write an equation to match each of the fraction bars. The first one has been done for you.



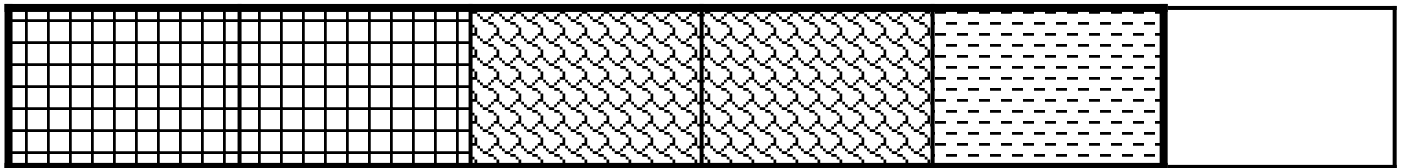
$$\frac{2}{6} + \frac{2}{6} + \frac{1}{6} = \frac{5}{6}$$



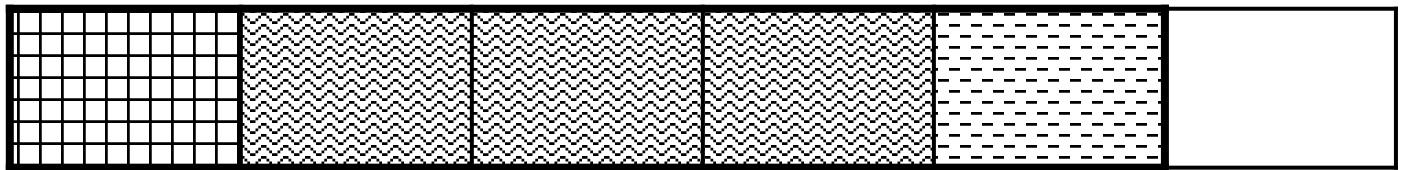
Decomposing Fractions

$\frac{5}{6}$

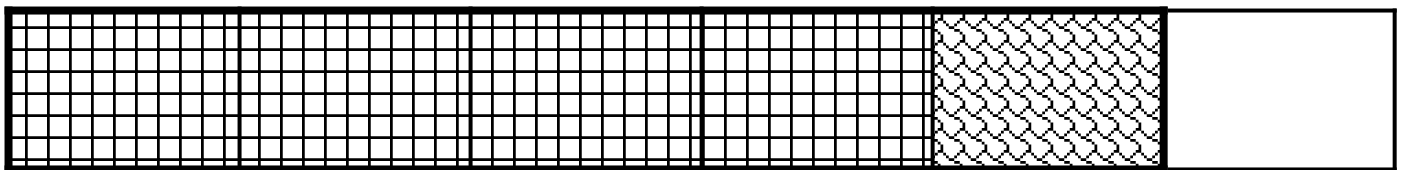
$\frac{5}{6}$ is decomposed in 4 different ways, using the fraction bars below. Write an equation to match each of the fraction bars. The first one has been done for you.



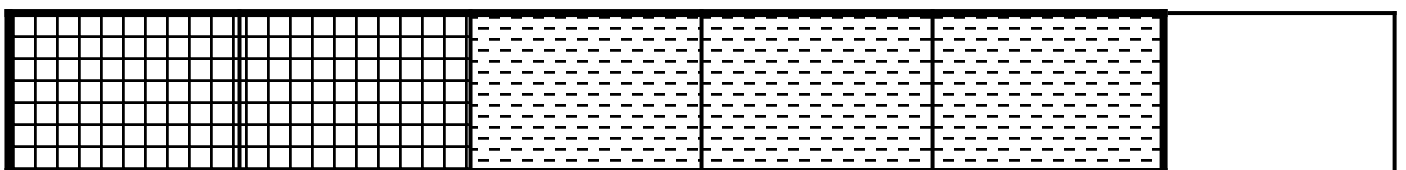
$$\frac{2}{6} + \frac{2}{6} + \frac{1}{6} = \frac{5}{6}$$



$$\frac{1}{6} + \frac{3}{6} + \frac{1}{6} = \frac{5}{6}$$



$$\frac{4}{6} + \frac{1}{6} = \frac{5}{6}$$



$$\frac{2}{6} + \frac{3}{6} = \frac{5}{6}$$

Decomposing fractions

$$\frac{7}{8}$$

Use the fraction bars, to decompose $\frac{7}{8}$ in 4 different ways. Use different colors for the different parts. Then write an equation to represent each decomposed fraction.

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Decomposing Mixed Numbers

When decomposing mixed numbers, break up the whole number into fractions equivalent to 1, and which have the same denominator as the fraction.

$$2\frac{1}{4} \rightarrow \frac{4}{4} + \frac{4}{4} + \frac{1}{4}$$

$$3\frac{3}{5} \rightarrow$$

$$2\frac{2}{8} \rightarrow$$

$$4\frac{5}{6} \rightarrow$$

Decomposing Mixed Numbers

When decomposing mixed numbers, break up the whole number into fractions equivalent to 1, and which have the same denominator as the fraction.

$$2\frac{1}{4} \rightarrow \frac{4}{4} + \frac{4}{4} + \frac{1}{4}$$

$$3\frac{3}{5} \rightarrow \frac{5}{5} + \frac{5}{5} + \frac{5}{5} + \frac{3}{5}$$

$$2\frac{2}{8} \rightarrow \frac{8}{8} + \frac{8}{8} + \frac{2}{8}$$

$$4\frac{5}{6} \rightarrow \frac{6}{6} + \frac{6}{6} + \frac{6}{6} + \frac{6}{6} + \frac{5}{6}$$

Name: _____ Date: _____ Score: _____

Decomposing Fractions Prompt

How many ways can you decompose five-eighths?

$$\frac{5}{8} = ?$$

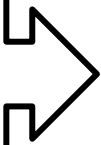
{ Use models, pictures, equations, and words in the
space provided below to prove your answer... }

Name: _____ Date: _____ Score: _____

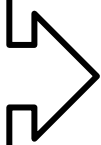
Decomposing Fractions Quiz

{ Decompose each of the following fractions in two different ways. }

$$\frac{6}{8}$$



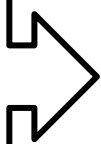
$$\frac{6}{6}$$



$$2\frac{4}{5}$$



$$\frac{7}{10}$$



Name: _____ Date: _____ Score: _____

Mixed Numbers to Improper Fractions

When converting mixed numbers to improper fractions, first decompose the whole number and fraction. Then add up the parts to make an improper fraction.

$$2\frac{3}{4} \rightarrow \frac{4}{4} + \frac{4}{4} + \frac{3}{4} \rightarrow \frac{11}{4}$$

Directions: Convert each mixed number to an improper fraction.

$$3\frac{1}{2} \rightarrow \underline{\hspace{10em}} \rightarrow \underline{\hspace{10em}}$$

$$2\frac{2}{3} \rightarrow \underline{\hspace{10em}} \rightarrow \underline{\hspace{10em}}$$

$$3\frac{2}{5} \rightarrow \underline{\hspace{10em}} \rightarrow \underline{\hspace{10em}}$$

Answer Key

Name: _____ Date: _____ Score: _____

Mixed Numbers to Improper Fractions

When converting mixed numbers to improper fractions, first decompose the whole number and fraction. Then add up the parts to make an improper fraction.

$$2\frac{3}{4} \rightarrow \frac{4}{4} + \frac{4}{4} + \frac{3}{4} \rightarrow \frac{11}{4}$$

Directions: Convert each mixed number to an improper fraction.

$$3\frac{1}{2} \rightarrow \frac{2}{2} + \frac{2}{2} + \frac{2}{2} + \frac{1}{2} \rightarrow \frac{7}{2}$$

$$2\frac{2}{3} \rightarrow \frac{3}{3} + \frac{3}{3} + \frac{2}{3} \rightarrow \frac{8}{3}$$

$$3\frac{2}{5} \rightarrow \frac{5}{5} + \frac{5}{5} + \frac{5}{5} + \frac{2}{5} \rightarrow \frac{17}{5}$$

Name: _____ Date: _____ Score: _____

IMPROPER FRACTIONS to Mixed Numbers

When converting improper fractions to mixed numbers, first decompose the improper fraction, making as many fractions equivalent to 1 as possible. Then use the parts to make a mixed number.

$$\frac{10}{3} \rightarrow \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{1}{3} \rightarrow 3\frac{1}{3}$$

Directions: Convert each improper fraction to a mixed number.

$$\frac{9}{4} \rightarrow \underline{\hspace{10em}} \rightarrow \underline{\hspace{10em}}$$

$$\frac{11}{3} \rightarrow \underline{\hspace{10em}} \rightarrow \underline{\hspace{10em}}$$

$$\frac{7}{2} \rightarrow \underline{\hspace{10em}} \rightarrow \underline{\hspace{10em}}$$

Answer Key

Name: _____ Date: _____ Score: _____

IMPROPER FRACTIONS to Mixed Numbers

When converting improper fractions to mixed numbers, first decompose the improper fraction, making as many fractions equivalent to 1 as possible. Then use the parts to make a mixed number.

$$\frac{10}{3} \rightarrow \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{1}{3} \rightarrow 3\frac{1}{3}$$

Directions: Convert each improper fraction to a mixed number.

$$\frac{9}{4} \rightarrow \frac{4}{4} + \frac{4}{4} + \frac{1}{4} \rightarrow 2\frac{1}{4}$$

$$\frac{11}{3} \rightarrow \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{2}{3} \rightarrow 3\frac{2}{3}$$

$$\frac{7}{2} \rightarrow \frac{2}{2} + \frac{2}{2} + \frac{2}{2} + \frac{1}{2} \rightarrow 3\frac{1}{2}$$

Name: _____ Date: _____ Score: _____

Adding Fractions

{ Find the sum of each. Find simplest form if needed. }

$$\frac{1}{3} + \frac{1}{3} = \underline{\quad} \quad \frac{2}{6} + \frac{3}{6} = \underline{\quad} \quad \frac{6}{10} + \frac{1}{10} = \underline{\quad}$$

$$\frac{1}{4} + \frac{2}{4} = \underline{\quad} \quad \frac{2}{5} + \frac{2}{5} = \underline{\quad} \quad \frac{3}{4} + \frac{1}{4} = \underline{\quad}$$

$$\frac{3}{8} + \frac{2}{8} = \underline{\quad} \quad \frac{1}{2} + \frac{1}{2} = \underline{\quad} \quad \frac{5}{8} + \frac{1}{8} = \underline{\quad}$$

$$\frac{2}{6} + \frac{1}{6} = \underline{\quad} \quad \frac{4}{10} + \frac{3}{10} = \underline{\quad} \quad \frac{5}{12} + \frac{2}{12} = \underline{\quad}$$

Answer Key

Name: _____ Date: _____ Score: _____

Adding Fractions

{Find the sum of each. Find simplest form if needed.}

$$\frac{1}{3} + \frac{1}{3} = \underline{\frac{2}{3}} \quad \frac{2}{6} + \frac{3}{6} = \underline{\frac{5}{6}} \quad \frac{6}{10} + \frac{1}{10} = \underline{\frac{7}{10}}$$

$$\frac{1}{4} + \frac{2}{4} = \underline{\frac{3}{4}} \quad \frac{2}{5} + \frac{2}{5} = \underline{\frac{4}{5}} \quad \frac{3}{4} + \frac{1}{4} = \underline{\frac{4}{4}}$$

$$\frac{3}{8} + \frac{2}{8} = \underline{\frac{5}{8}} \quad \frac{1}{2} + \frac{1}{2} = \underline{\frac{2}{2}} \quad \frac{5}{8} + \frac{1}{8} = \underline{\frac{6}{8}}$$

$$\frac{2}{6} + \frac{1}{6} = \underline{\frac{3}{6}} \quad \frac{4}{10} + \frac{3}{10} = \underline{\frac{7}{10}} \quad \frac{5}{12} + \frac{2}{12} = \underline{\frac{7}{12}}$$

Name: _____ Date: _____ Score: _____

Subtracting Fractions

{Find the difference of each. Find simplest form if needed.}

$$\frac{2}{3} - \frac{1}{3} = \underline{\quad} \quad \frac{5}{6} - \frac{3}{6} = \underline{\quad} \quad \frac{6}{10} - \frac{4}{10} = \underline{\quad}$$

$$\frac{4}{4} - \frac{2}{4} = \underline{\quad} \quad \frac{2}{5} - \frac{2}{5} = \underline{\quad} \quad \frac{8}{12} - \frac{5}{12} = \underline{\quad}$$

$$\frac{6}{8} - \frac{2}{8} = \underline{\quad} \quad \frac{3}{5} - \frac{1}{5} = \underline{\quad} \quad \frac{5}{8} - \frac{1}{8} = \underline{\quad}$$

$$\frac{2}{6} - \frac{1}{6} = \underline{\quad} \quad \frac{4}{10} - \frac{3}{10} = \underline{\quad} \quad \frac{5}{12} - \frac{2}{12} = \underline{\quad}$$

Answer Key

Name: _____ Date: _____ Score: _____

Subtracting Fractions

{Find the difference of each. Find simplest form if needed.}

$$\frac{2}{3} - \frac{1}{3} = \underline{\frac{1}{3}} \quad \frac{5}{6} - \frac{3}{6} = \underline{\frac{2}{6}} \quad \frac{6}{10} - \frac{4}{10} = \underline{\frac{2}{10}}$$

$$\frac{4}{4} - \frac{2}{4} = \underline{\frac{2}{4}} \quad \frac{2}{5} - \frac{2}{5} = \underline{0} \quad \frac{8}{12} - \frac{5}{12} = \underline{\frac{3}{12}}$$

$$\frac{6}{8} - \frac{2}{8} = \underline{\frac{4}{8}} \quad \frac{3}{5} - \frac{1}{5} = \underline{\frac{2}{5}} \quad \frac{5}{8} - \frac{1}{8} = \underline{\frac{4}{8}}$$

$$\frac{2}{6} - \frac{1}{6} = \underline{\frac{1}{6}} \quad \frac{4}{10} - \frac{3}{10} = \underline{\frac{1}{10}} \quad \frac{5}{12} - \frac{2}{12} = \underline{\frac{3}{12}}$$

Name: _____ Date: _____ Score: _____

Adding Mixed Numbers

Directions: Find the sum of each.

$$3\frac{1}{3} + 2\frac{1}{3} = \underline{\hspace{2cm}}$$

$$2\frac{3}{8} + 1\frac{1}{8} = \underline{\hspace{2cm}}$$

$$2\frac{1}{4} + 2\frac{1}{4} = \underline{\hspace{2cm}}$$

$$1\frac{2}{5} + 2\frac{1}{5} = \underline{\hspace{2cm}}$$

$$4\frac{3}{10} + \frac{4}{10} = \underline{\hspace{2cm}}$$

$$3\frac{2}{6} + 2\frac{1}{6} = \underline{\hspace{2cm}}$$

$$3\frac{5}{8} + 3\frac{1}{8} = \underline{\hspace{2cm}}$$

$$4\frac{2}{3} + 1\frac{1}{3} = \underline{\hspace{2cm}}$$

$$3\frac{2}{10} + 2\frac{3}{10} = \underline{\hspace{2cm}}$$

$$3\frac{2}{6} + 2\frac{2}{6} = \underline{\hspace{2cm}}$$

Answer Key

Name: _____ Date: _____ Score: _____

Adding Mixed Numbers

Directions: Find the sum of each.

$$3\frac{1}{3} + 2\frac{1}{3} = \underline{5\frac{2}{3}} \quad 2\frac{3}{8} + 1\frac{1}{8} = \underline{3\frac{4}{8} \text{ or } 3\frac{1}{2}}$$

$$2\frac{1}{4} + 2\frac{1}{4} = \underline{4\frac{2}{4} \text{ or } 4\frac{1}{2}} \quad 1\frac{2}{5} + 2\frac{1}{5} = \underline{3\frac{3}{5}}$$

$$4\frac{3}{10} + \frac{4}{10} = \underline{4\frac{7}{10}} \quad 3\frac{2}{6} + 2\frac{1}{6} = \underline{5\frac{3}{6} \text{ or } 5\frac{1}{2}}$$

$$3\frac{5}{8} + 3\frac{1}{8} = \underline{6\frac{6}{8} \text{ or } 6\frac{3}{4}} \quad 4\frac{2}{3} + 1\frac{1}{3} = \underline{5\frac{3}{3} \text{ or } 6}$$

$$3\frac{2}{10} + 2\frac{3}{10} = \underline{5\frac{5}{10} \text{ or } 5\frac{1}{2}} \quad 3\frac{2}{6} + 2\frac{2}{6} = \underline{5\frac{4}{6} \text{ or } 5\frac{1}{2}}$$

Name: _____ Date: _____ Score: _____

Subtracting Mixed Numbers

Directions: Find the difference of each.

$$3\frac{2}{3} - 2\frac{1}{3} = \underline{\hspace{2cm}} \qquad 2\frac{5}{8} - 1\frac{1}{8} = \underline{\hspace{2cm}}$$

$$4\frac{3}{4} - 2\frac{1}{4} = \underline{\hspace{2cm}} \qquad 3\frac{3}{5} - 2\frac{1}{5} = \underline{\hspace{2cm}}$$

$$2\frac{7}{10} - \frac{4}{10} = \underline{\hspace{2cm}} \qquad 5\frac{5}{6} - 2\frac{1}{6} = \underline{\hspace{2cm}}$$

$$3\frac{5}{8} - 1\frac{2}{8} = \underline{\hspace{2cm}} \qquad 4\frac{2}{3} - 1\frac{1}{3} = \underline{\hspace{2cm}}$$

$$5\frac{8}{10} - 2\frac{3}{10} = \underline{\hspace{2cm}} \qquad 3\frac{2}{6} - 2\frac{2}{6} = \underline{\hspace{2cm}}$$

Answer Key

Name: _____ Date: _____ Score: _____

Subtracting Mixed Numbers

Directions: Find the difference of each.

$$3\frac{2}{3} - 2\frac{1}{3} = \underline{1\frac{1}{3}} \quad 2\frac{5}{8} - 1\frac{1}{8} = \underline{1\frac{4}{8} \quad 1\frac{1}{2}}$$

$$4\frac{3}{4} - 2\frac{1}{4} = \underline{2\frac{2}{4} \text{ or } 2\frac{1}{2}} \quad 3\frac{3}{5} - 2\frac{1}{5} = \underline{1\frac{2}{5}}$$

$$2\frac{7}{10} - \frac{4}{10} = \underline{2\frac{3}{10}} \quad 5\frac{5}{6} - 2\frac{1}{6} = \underline{3\frac{4}{6} \text{ or } 3\frac{2}{3}}$$

$$3\frac{5}{8} - 1\frac{2}{8} = \underline{2\frac{3}{8}} \quad 4\frac{2}{3} - 1\frac{1}{3} = \underline{3\frac{1}{3}}$$

$$5\frac{8}{10} - 2\frac{3}{10} = \underline{3\frac{5}{10} \text{ or } 3\frac{1}{2}} \quad 3\frac{2}{6} - 2\frac{2}{6} = \underline{1}$$

Name: _____ Date: _____ Score: _____

Word Problems:

Adding & Subtracting Fractions

Use visual fraction models and equations to solve each word problem.

For the cake she is baking, Kayla needs $\frac{5}{6}$ of a cup of sugar. She only has $\frac{2}{6}$ of a cup. How much more sugar does Kayla need to make her cake?

Kristen is reading a mystery book for her next book report. On Saturday she reads $\frac{2}{5}$ of the book, and on Sunday she reads $\frac{1}{5}$ of the book. What fraction of the book did Kristen read over the weekend?

Kevin and his friends order a pizza for dinner. They eat $\frac{3}{10}$ of the pizza and then go out to play football. Afterwards, they are still hungry and they eat another $\frac{4}{10}$ of the pizza. How much of the pizza did Kevin and his friends eat?

Bobby is walking $\frac{7}{8}$ of a mile to his friend Kyle's house. If he stops at a candy shop after walking $\frac{2}{8}$ of a mile, how far does Bobby still have to walk to reach his friend's house?

Answer Key

Name: _____ Date: _____ Score: _____

Word Problems: Adding & Subtracting Fractions

Use visual fraction models and equations to solve each word problem.

For the cake she is baking, Kayla needs $\frac{5}{6}$ of a cup of sugar. She only has $\frac{2}{6}$ of a cup. How much more sugar does Kayla need to make her cake?

$\frac{3}{6}$ or $\frac{1}{2}$ of a cup of sugar

Kristen is reading a mystery book for her next book report. On Saturday she reads $\frac{2}{5}$ of the book, and on Sunday she reads $\frac{1}{5}$ of the book. What fraction of the book did Kristen read over the weekend?

$\frac{3}{5}$ of the book.

Kevin and his friends order a pizza for dinner. They eat $\frac{3}{10}$ of the pizza and then go out to play football. Afterwards, they are still hungry and they eat another $\frac{4}{10}$ of the pizza. How much of the pizza did Kevin and his friends eat?

$\frac{7}{10}$ of the pizza.

Bobby is walking $\frac{7}{8}$ of a mile to his friend Kyle's house. If he stops at a candy shop after walking $\frac{2}{8}$ of a mile, how far does Bobby still have to walk to reach his friend's house?

$\frac{5}{8}$ of a mile.

Name: _____ Date: _____ Score: _____

Word Problems:

Adding & Subtracting Mixed Numbers

Use visual fraction models and equations to solve each word problem.

Penny ordered pizza for her party. At the end of the party there was $2\frac{1}{8}$ of pepperoni pizza left and $1\frac{3}{8}$ of cheese pizza left. How much total pizza did Penny have left over?

It takes Logan $3\frac{3}{4}$ hours to drive to his grandparents' house. If he stops for gas after $1\frac{1}{4}$ hours, how much longer will it take for him to reach their house?

.....

Matt spent the weekend working on his science project. On Saturday he spent $2\frac{1}{2}$ hours working on the science project and on Sunday he spent $1\frac{1}{2}$ hours working on it. How much total time did Matt spend on his project?

.....

Lindsay and Carmen had a contest to see how who could run more laps around the track in ten minutes. Lindsay ran $2\frac{2}{6}$ laps and Carmen ran $4\frac{5}{6}$ laps. How many more laps did Carmen run than Lindsay?

Answer Key

Name: _____ Date: _____ Score: _____

Word Problems:

Adding & Subtracting Mixed Numbers

Use visual fraction models and equations to solve each word problem.

Penny ordered pizza for her party. At the end of the party there was $2\frac{1}{8}$ of pepperoni pizza left and $1\frac{3}{8}$ of cheese pizza left. How much total pizza did Penny have left over?

$3\frac{4}{8}$ or $3\frac{1}{2}$ pizzas left over.

.....
Matt spent the weekend working on his science project. On Saturday he spent $2\frac{1}{2}$ hours working on the science project and on Sunday he spent $1\frac{1}{2}$ hours working on it. How much total time did Matt spend on his project?

He spend 4 hours on his project.

It takes Logan $3\frac{3}{4}$ hours to drive to his grandparents' house. If he stops for gas after $1\frac{1}{4}$ hours, how much longer will it take for him to reach their house?

$2\frac{2}{4}$ or $2\frac{1}{2}$ hours left.

.....
Lindsay and Carmen had a contest to see how who could run more laps around the track in ten minutes. Lindsay ran $2\frac{2}{6}$ laps and Carmen ran $4\frac{5}{6}$ laps. How many more laps did Carmen run than Lindsay?

$2\frac{3}{6}$ or $2\frac{1}{2}$ more laps.

Name: _____ Date: _____ Score: _____

Create Your Own Word Problems:

Adding & Subtracting Fractions

{Write and solve your own word problems for each.}

$$\frac{3}{5} + \frac{1}{5} = \underline{\quad}$$

$$2\frac{1}{4} + 1\frac{2}{4} = \underline{\quad}$$

$$\frac{5}{8} - \frac{2}{8} = \underline{\quad}$$

$$4\frac{5}{6} - 2\frac{2}{6} = \underline{\quad}$$

Name: _____ Date: _____ Score: _____

Adding fractions with Denominators of 10 & 100

{ Find equivalent fractions. Then find the sum. }

$$\frac{3}{10} + \frac{20}{100} = \underline{\quad}$$

$$\frac{60}{100} + \frac{2}{10} = \underline{\quad}$$

$$\frac{40}{100} + \frac{5}{10} = \underline{\quad}$$

$$\frac{7}{10} + \frac{10}{100} = \underline{\quad}$$

$$\frac{4}{10} + \frac{30}{100} = \underline{\quad}$$

$$\frac{50}{100} + \frac{4}{10} = \underline{\quad}$$

$$\frac{60}{100} + \frac{2}{10} = \underline{\quad}$$

$$\frac{9}{10} + \frac{10}{100} = \underline{\quad}$$

$$\frac{1}{10} + \frac{40}{100} = \underline{\quad}$$

$$\frac{70}{100} + \frac{2}{10} = \underline{\quad}$$

Answer Key

Name: _____ Date: _____ Score: _____

Adding fractions with Denominators of 10 & 100

{ Find equivalent fractions. Then find the sum. }

$$\frac{3}{10} + \frac{20}{100} = \frac{5}{10}$$

$$\frac{60}{100} + \frac{2}{10} = \frac{8}{10}$$

$$\frac{40}{100} + \frac{5}{10} = \frac{9}{10}$$

$$\frac{7}{10} + \frac{10}{100} = \frac{8}{10}$$

$$\frac{4}{10} + \frac{30}{100} = \frac{7}{10}$$

$$\frac{50}{100} + \frac{4}{10} = \frac{9}{10}$$

$$\frac{60}{100} + \frac{2}{10} = \frac{8}{10}$$

$$\frac{9}{10} + \frac{10}{100} = \frac{10}{10} \text{ or } 1$$

$$\frac{1}{10} + \frac{40}{100} = \frac{5}{10}$$

$$\frac{70}{100} + \frac{2}{10} = \frac{9}{10}$$

Name: _____ Date: _____ Score: _____

Mixed Practice:

Adding & Subtracting Fractions

{ Show one way to decompose the following fractions. }

$$\frac{4}{5} \underline{\hspace{2cm}} \quad \frac{7}{8} \underline{\hspace{2cm}}$$

{ Find the sum for each. }

$$\frac{1}{6} + \frac{4}{6} = \underline{\hspace{2cm}}$$

$$\frac{3}{4} + \frac{1}{4} = \underline{\hspace{2cm}}$$

$$2\frac{1}{3} + 3\frac{1}{3} = \underline{\hspace{2cm}}$$

$$2\frac{1}{4} + 2\frac{2}{4} = \underline{\hspace{2cm}}$$

{ Find the difference for each. }

$$\frac{4}{5} - \frac{2}{5} = \underline{\hspace{2cm}}$$

$$\frac{6}{8} - \frac{2}{8} = \underline{\hspace{2cm}}$$

$$3\frac{7}{10} - \frac{6}{10} = \underline{\hspace{2cm}}$$

$$3\frac{4}{6} - 2\frac{1}{6} = \underline{\hspace{2cm}}$$

Answer Key

Name: _____ Date: _____ Score: _____

Mixed Practice:

Adding & Subtracting Fractions

{ Show one way to decompose the following fractions. }

Answers will vary.

$$\frac{4}{5} \underline{\hspace{2cm}} \quad \frac{7}{8} \underline{\hspace{2cm}}$$

{ Find the sum for each. }

$$\frac{1}{6} + \frac{4}{6} = \underline{\frac{5}{6}}$$

$$\frac{3}{4} + \frac{1}{4} = \underline{\frac{4}{4} \text{ or } 1}$$

$$2\frac{1}{3} + 3\frac{1}{3} = \underline{5\frac{2}{3}}$$

$$2\frac{1}{4} + 2\frac{2}{4} = \underline{4\frac{3}{4}}$$

{ Find the difference for each. }

$$\frac{4}{5} - \frac{2}{5} = \underline{\frac{3}{5}}$$

$$\frac{6}{8} - \frac{2}{8} = \underline{\frac{4}{8} \text{ or } \frac{1}{2}}$$

$$3\frac{7}{10} - \frac{6}{10} = \underline{3\frac{1}{10}}$$

$$3\frac{4}{6} - 2\frac{1}{6} = \underline{1\frac{3}{6} \text{ or } 1\frac{1}{2}}$$

Name: _____ Date: _____ Score: _____

Adding & Subtracting Fractions Quiz

Find the sum or difference.

$$\frac{3}{6} + \frac{2}{6} = \underline{\hspace{2cm}}$$

.....

$$\frac{4}{5} - \frac{2}{5} = \underline{\hspace{2cm}}$$

.....

$$2\frac{3}{8} + 1\frac{1}{8} = \underline{\hspace{2cm}}$$

.....

$$5\frac{8}{10} - 2\frac{4}{10} = \underline{\hspace{2cm}}$$

.....

$$3\frac{3}{5} - 2\frac{2}{5} = \underline{\hspace{2cm}}$$

Use visual fraction models and equations to solve each word problem.

At the basketball game last week, Max made $\frac{3}{8}$ of the team's baskets and Caleb made $\frac{1}{8}$ of the baskets. What fraction of the baskets did Max and Caleb score together?

There was $\frac{7}{10}$ of a pizza left over from dinner. Dana ate $\frac{3}{10}$ for lunch the next day. What fraction of the pizza was left after Dana ate lunch?

Answer Key

Name: _____ Date: _____ Score: _____

Adding & Subtracting Fractions Quiz

Find the sum or difference.

$$\frac{3}{6} + \frac{2}{6} = \underline{\frac{5}{6}}$$

$$\frac{4}{5} - \frac{2}{5} = \underline{\frac{3}{5}}$$

$$2\frac{3}{8} + 1\frac{1}{8} = \underline{3\frac{4}{8}} \text{ or } \underline{3\frac{1}{2}}$$

$$5\frac{8}{10} - 2\frac{4}{10} = \underline{3\frac{4}{10}} \text{ or } \underline{3\frac{2}{5}}$$

$$3\frac{3}{5} - 2\frac{2}{5} = \underline{1\frac{1}{5}}$$

Use visual fraction models and equations to solve each word problem.

At the basketball game last week, Max made $\frac{3}{8}$ of the team's baskets and Caleb made $\frac{1}{8}$ of the baskets. What fraction of the baskets did Max and Caleb score together?

$\frac{4}{8}$ or $\frac{1}{2}$ of the baskets.

There was $\frac{7}{10}$ of a pizza left over from dinner. Dana ate $\frac{3}{10}$ for lunch the next day. What fraction of the pizza was left after Dana ate lunch?

$\frac{4}{10}$ or $\frac{2}{5}$ of a pizza.

Part 5

Multiplying

FRACTIONS

STANDARDS: 4.NF.4

DURATION: 2 to 4 days

CONTENTS:

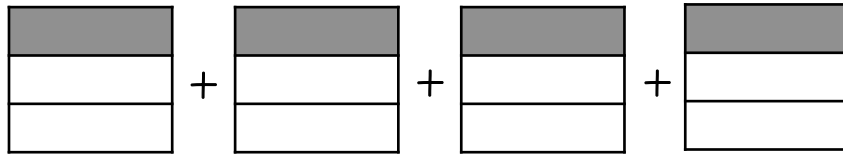
1. Understanding Fraction Multiplication (2 pages)
2. Fraction Multiplication Practice
3. Word Problems: Multiplying Fractions
4. Create Your Own Word Problems: Fraction Multiplication
5. Recipe Task Cards (2 pages)
6. Fraction Bracelets
7. Multiplying Fractions Quiz

TOTAL PAGES: 9

Name: _____ Date: _____ Score: _____

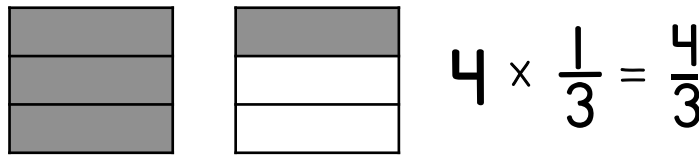
Understanding Fraction Multiplication

When multiplying a fraction by a whole number, you are adding equal parts of a whole a given number of times. For instance, when multiplying $\frac{1}{3}$ by 4, you are adding $\frac{1}{3}$ four times...



$$\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} = \frac{4}{3}$$

This is the same as...



Use the models to find the product of each.

$$6 \times \frac{1}{5} = \text{---}$$

$$5 \times \frac{1}{2} = \text{---}$$

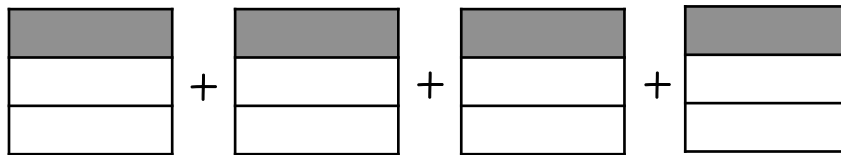
$$5 \times \frac{1}{3} = \text{---}$$

Answer Key

Name: _____ Date: _____ Score: _____

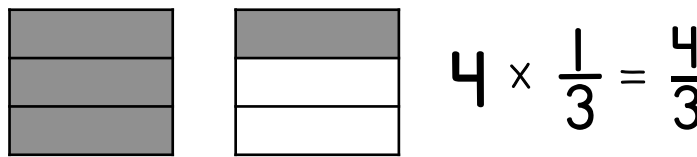
Understanding Fraction Multiplication

When multiplying a fraction by a whole number, you are adding equal parts of a whole a given number of times. For instance, when multiplying $\frac{1}{3}$ by 4, you are adding $\frac{1}{3}$ four times...



$$\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} = \frac{4}{3}$$

This is the same as...



Use the models to find the product of each.

$$6 \times \frac{1}{5} = \frac{6}{5}$$

$$5 \times \frac{1}{2} = \frac{5}{2}$$

$$5 \times \frac{1}{3} = \frac{5}{3}$$

Name: _____ Date: _____ Score: _____

Understanding Fraction Multiplication #2

A fraction such as $\frac{2}{3}$ can be interpreted as $2 \times \frac{1}{3}$.

So, $4 \times \frac{2}{3}$ is the same as $8 \times \frac{1}{3}$...



$$4 \times \frac{2}{3} = \frac{8}{3}$$

Use the models to find the product of each.

$$2 \times \frac{2}{3} = \text{---} \quad \begin{array}{|c|c|c|} \hline & & \\ \hline \end{array} \quad \begin{array}{|c|c|c|} \hline & & \\ \hline \end{array}$$

$$4 \times \frac{2}{5} = \text{---} \quad \begin{array}{|c|c|c|c|c|} \hline & & & & \\ \hline \end{array} \quad \begin{array}{|c|c|c|c|c|} \hline & & & & \\ \hline \end{array}$$

$$3 \times \frac{3}{4} = \text{---} \quad \begin{array}{|c|c|c|c|} \hline & & & \\ \hline \end{array} \quad \begin{array}{|c|c|c|c|} \hline & & & \\ \hline \end{array} \quad \begin{array}{|c|c|c|c|} \hline & & & \\ \hline \end{array}$$

$$2 \times \frac{3}{5} = \text{---} \quad \begin{array}{|c|c|c|c|c|} \hline & & & & \\ \hline \end{array} \quad \begin{array}{|c|c|c|c|c|} \hline & & & & \\ \hline \end{array}$$

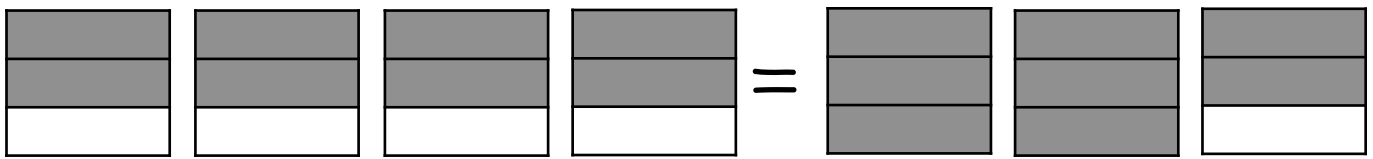
Answer Key

Name: _____ Date: _____ Score: _____

Understanding Fraction Multiplication #2

A fraction such as $\frac{2}{3}$ can be interpreted as $2 \times \frac{1}{3}$.

So, $4 \times \frac{2}{3}$ is the same as $8 \times \frac{1}{3}$...



$$4 \times \frac{2}{3} = \frac{8}{3}$$

Use the models to find the product of each.

$$2 \times \frac{2}{3} = \frac{4}{3}$$

$$4 \times \frac{2}{5} = \frac{8}{5}$$

$$3 \times \frac{3}{4} = \frac{9}{4}$$

$$2 \times \frac{3}{5} = \frac{6}{5}$$

Name: _____ Date: _____ Score: _____

Fraction Multiplication Practice

{Find the product for each.}

$4 \times \frac{1}{2} = \underline{\quad}$ $3 \times \frac{3}{8} = \underline{\quad}$ $5 \times \frac{1}{4} = \underline{\quad}$

$7 \times \frac{2}{3} = \underline{\quad}$ $3 \times \frac{2}{4} = \underline{\quad}$ $3 \times \frac{2}{5} = \underline{\quad}$

$4 \times \frac{3}{5} = \underline{\quad}$ $5 \times \frac{1}{2} = \underline{\quad}$ $4 \times \frac{1}{3} = \underline{\quad}$

$5 \times \frac{2}{6} = \underline{\quad}$ $3 \times \frac{3}{5} = \underline{\quad}$ $6 \times \frac{1}{4} = \underline{\quad}$

$5 \times \frac{1}{5} = \underline{\quad}$ $5 \times \frac{2}{3} = \underline{\quad}$ $5 \times \frac{1}{8} = \underline{\quad}$

Answer Key

Name: _____ Date: _____ Score: _____

Fraction Multiplication Practice

{ Find the product for each. }

$$4 \times \frac{1}{2} = \frac{4}{2} \quad 3 \times \frac{3}{8} = \frac{9}{8} \quad 5 \times \frac{1}{4} = \frac{5}{4}$$

$$7 \times \frac{2}{3} = \frac{14}{3} \quad 3 \times \frac{2}{4} = \frac{6}{4} \quad 3 \times \frac{2}{5} = \frac{6}{5}$$

$$4 \times \frac{3}{5} = \frac{12}{5} \quad 5 \times \frac{1}{2} = \frac{5}{2} \quad 4 \times \frac{1}{3} = \frac{4}{3}$$

$$5 \times \frac{2}{6} = \frac{10}{6} \quad 3 \times \frac{3}{5} = \frac{9}{5} \quad 6 \times \frac{1}{4} = \frac{6}{4}$$

$$5 \times \frac{1}{5} = \frac{5}{5} \quad 5 \times \frac{2}{3} = \frac{10}{3} \quad 5 \times \frac{1}{8} = \frac{5}{8}$$

Name: _____ Date: _____ Score: _____

Word Problems: Multiplying Fractions

Use visual fraction models and equations to solve each word problem.

Mr. Larken, the P.E. teacher, has his students run $\frac{1}{2}$ of a mile during each class. If the class meets 5 days a week, how many miles do his students run each week?

Cameron fills 5 bags with candy at the Sweet Shop. Each bag contains $\frac{1}{4}$ of a pound of candy. How much candy does Cameron get altogether?

.....

Maggie is buying ingredients to make cookies. She needs $\frac{2}{3}$ of a cup of sugar for each batch of cookies she makes. If she plans to make 3 batches, how much sugar should Maggie buy?

.....

Three sisters are having pizza for dinner. Each of them eat $\frac{3}{8}$ of a pizza. How much pizza do the three sisters eat altogether?

Answer Key

Name: _____ Date: _____ Score: _____

Word Problems: Multiplying Fractions

Use visual fraction models and equations to solve each word problem.

Mr. Larken, the P.E. teacher, has his students run $\frac{1}{2}$ of a mile during each class. If the class meets 5 days a week, how many miles do his students run each week?

$\frac{5}{2}$ miles

Cameron fills 5 bags with candy at the Sweet Shop. Each bag contains $\frac{1}{4}$ of a pound of candy. How much candy does Cameron get altogether?

$\frac{5}{4}$ of a pound of candy.

Maggie is buying ingredients to make cookies. She needs $\frac{2}{3}$ of a cup of sugar for each batch of cookies she makes. If she plans to make 3 batches, how much sugar should Maggie buy?

$\frac{6}{3}$ cups of sugar

Three sisters are having pizza for dinner. Each of them eat $\frac{3}{8}$ of a pizza. How much pizza do the three sisters eat altogether?

$\frac{9}{8}$ of pizza

Name: _____ Date: _____ Score: _____

Create Your Own Word Problems:

fraction Multiplication

{Write and solve your own word problems for each.}

$$3 \times \frac{1}{2} =$$

$$4 \times \frac{1}{5} =$$

$$5 \times \frac{3}{4} =$$

$$2 \times \frac{5}{8} =$$

Chewy Chocolate Cookies

Directions:

Mix the following ingredients together. Form dough into balls and place on a baking sheet. Bake at 350 degrees for 15 minutes. Enjoy!

Ingredients:

Serves: 1 batch makes 12 cookies.

$\frac{3}{4}$ Cup of Flour

$\frac{2}{3}$ Cup of Cocoa Powder

$\frac{1}{2}$ Cups of Sugar

$\frac{2}{5}$ Pound of Butter

$\frac{1}{3}$ Cup of Salt

$\frac{1}{4}$ Tablespoon of Baking Soda

How much of each ingredient would be needed to make 5 batches of cookies? Record your answers on a separate piece of paper.

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Answer
Key

Chewy Chocolate Cookies

Directions:

Mix the following ingredients together. Form dough into balls and place on a baking sheet. Bake at 350 degrees for 15 minutes. Enjoy!

Ingredients:

Serves: 1 batch makes 12 cookies.

$\frac{3}{4}$ Cup of Flour $\frac{15}{4}$

$\frac{2}{3}$ Cup of Cocoa Powder $\frac{10}{3}$

$\frac{1}{2}$ Cup of Sugar $\frac{5}{2}$

$\frac{2}{5}$ Pound of Butter $\frac{10}{5}$

$\frac{1}{3}$ Cup of Salt $\frac{5}{3}$

$\frac{1}{4}$ Tablespoon of Baking Soda $\frac{5}{4}$

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$\frac{1}{3}$ Cup of Salt

$\frac{1}{4}$ Tablespoon of Baking Soda

How much of each ingredient would be needed to make 5 batches of cookies? Record your answers on a separate piece of paper.

BERRY-Blue Blueberry Muffins

Directions:

Mix the following ingredients together. Pour batter into a muffin tin. Bake at 375 degrees for 12 minutes. Enjoy!

Ingredients:

Serves: 1 batch makes 12 muffins.

$\frac{3}{5}$ Cup of Flour

$\frac{5}{6}$ Cup of Blueberries

$\frac{2}{3}$ Cup of Sugar

$\frac{3}{8}$ Pound of Butter

$\frac{3}{10}$ Cup of Salt

$\frac{1}{2}$ Tablespoon of Baking Soda

How much of each ingredient would be needed to make 6 batches of muffins? Record your answers on a separate piece of paper.

BERRY-Blue Blueberry Muffins

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Mix the following ingredients together. Pour batter into a muffin tin. Bake at 375 degrees for 12 minutes. Enjoy!

Ingredients:

Serves: 1 batch makes 12 muffins.

$\frac{3}{5}$ Cup of Flour

$\frac{5}{6}$ Cup of Blueberries

$\frac{2}{3}$ Cup of Sugar

$\frac{3}{8}$ Pound of Butter

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Directions:

Mix the following ingredients together. Pour batter into a muffin tin. Bake at 375 degrees for 12 minutes. Enjoy!

Ingredients:

Serves: 1 batch makes 12 muffins.

$\frac{3}{5}$ Cup of Flour $\frac{18}{5}$

$\frac{5}{6}$ Cup of Blueberries $\frac{30}{6}$

$\frac{2}{3}$ Cup of Sugar $\frac{12}{3}$

$\frac{3}{8}$ Pound of Butter $\frac{18}{8}$

$\frac{3}{10}$ Cup of Salt $\frac{18}{10}$

$\frac{1}{2}$ Tablespoon of Baking Soda $\frac{6}{2}$

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$\frac{3}{10}$ Cup of Salt

$\frac{1}{2}$ Tablespoon of Baking Soda

How much of each ingredient would be needed to make 6 batches of muffins? Record your answers on a separate piece of paper.

Fraction Bracelets

Make a fraction bracelet with a total of 12 beads. Your bracelet must have 4 different colors. Use the criteria below to create your bracelet:

$\frac{1}{4}$ of the beads should be _____
{Color #1}

$\frac{1}{4}$ of the beads should be _____
{Color #2}

$\frac{1}{3}$ of the beads should be _____
{Color #3}

$\frac{1}{6}$ of the beads should be _____
{Color #4}

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{Color #1}

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{Color #2}

$\frac{1}{3}$ of the beads should be _____
{Color #3}

$\frac{1}{6}$ of the beads should be _____
{Color #4}

Answer Key

Fraction Bracelets

Make a fraction bracelet with a total of 12 beads. Your bracelet must have 4 different colors. Use the criteria below to create your bracelet:

$\frac{1}{4}$ of the beads should be _____
3 beads of this color.
{Color #1}

$\frac{1}{4}$ of the beads should be _____
3 beads of this color.
{Color #2}

$\frac{1}{3}$ of the beads should be _____
4 beads of this color.
{Color #3}

$\frac{1}{6}$ of the beads should be _____
2 beads of this color.
{Color #4}

Fraction Bracelets

Make a fraction bracelet with a total of 12 beads. Your bracelet must have 4 different colors. Use the criteria below to create your bracelet:

$\frac{1}{4}$ of the beads should be _____
{Color #1}

$\frac{1}{4}$ of the beads should be _____
{Color #2}

$\frac{1}{3}$ of the beads should be _____
{Color #3}

$\frac{1}{6}$ of the beads should be _____
{Color #4}

Name: _____ Date: _____ Score: _____

Fraction Multiplication Quiz

Find the product for each.

$$4 \times \frac{2}{6} = \underline{\quad}$$

$$2 \times \frac{3}{5} = \underline{\quad}$$

$$5 \times \frac{1}{4} = \underline{\quad}$$

$$3 \times \frac{2}{5} = \underline{\quad}$$

$$5 \times \frac{3}{4} = \underline{\quad}$$

Use visual fraction models and equations to solve each word problem.

Sophia needs $\frac{1}{3}$ of a pound of butter for each cake that she bakes. If she decides to make a total of 5 cakes, how much butter will she need?

Jack, Juan, and Chi are having pie for dessert. If they each eat $\frac{3}{4}$ of a pie, how much did the 3 friends eat altogether?

Answer Key

Name: _____ Date: _____ Score: _____

Fraction Multiplication Quiz

Find the product for each.

$$4 \times \frac{2}{6} = \frac{8}{6}$$

$$2 \times \frac{3}{5} = \frac{6}{5}$$

$$5 \times \frac{1}{4} = \frac{5}{4}$$

$$3 \times \frac{2}{5} = \frac{6}{5}$$

$$5 \times \frac{3}{4} = \frac{15}{4}$$

Use visual fraction models and equations to solve each word problem.

Sophia needs $\frac{1}{3}$ of a pound of butter for each cake that she bakes. If she decides to make a total of 5 cakes, how much butter will she need?

$\frac{5}{3}$ of a pound of butter

Jack, Juan, and Chi are having pie for dessert. If they each eat $\frac{3}{4}$ of a pie, how much did the 3 friends eat altogether?

$\frac{9}{4}$ of the pies

Part 6

Decimals &

FRACTIONS

STANDARDS: 4.NF.6 and 4.NF.7

DURATION: 3 to 4 days

CONTENTS:

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2. Fractions & Decimals: Tenths
3. Fractions & Decimals: Hundredths
4. Fractions → Decimals: Tenths
5. Fractions → Decimals: Hundredths
6. Decimals → Fractions: Tenths
7. Decimals → Fractions: Hundredths
8. Comparing Decimals Using Models
9. Comparing Decimals
10. Ordering Decimals

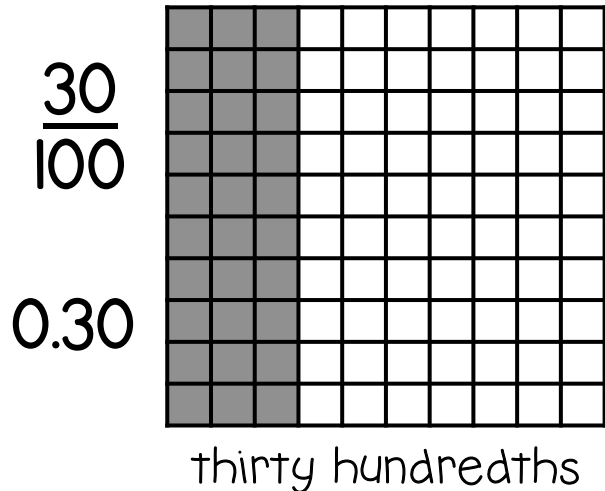
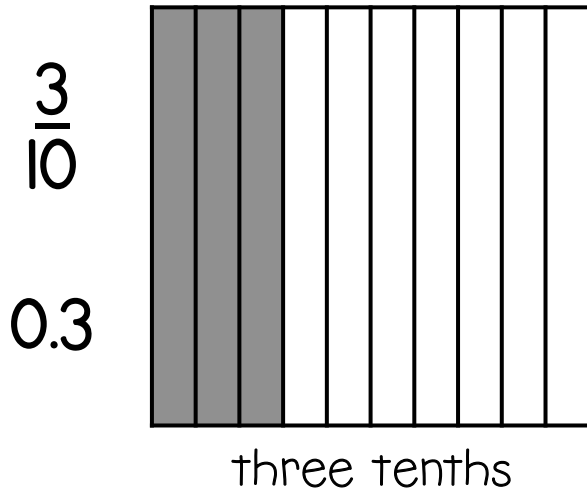
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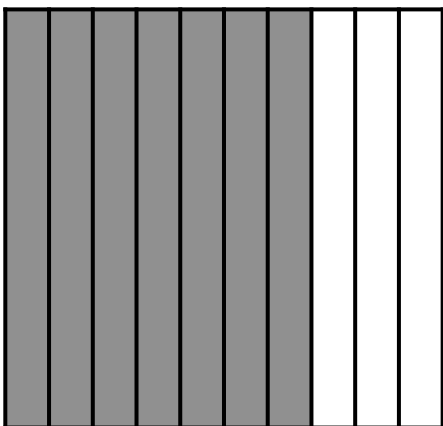
Relating Fractions & Decimals

- Decimal notation is another way to represent “part” of a whole.
- Decimals relate to fractions with denominators of 10, 100, etc...
- A Decimal Point is used to separate the “whole” and the “part”.

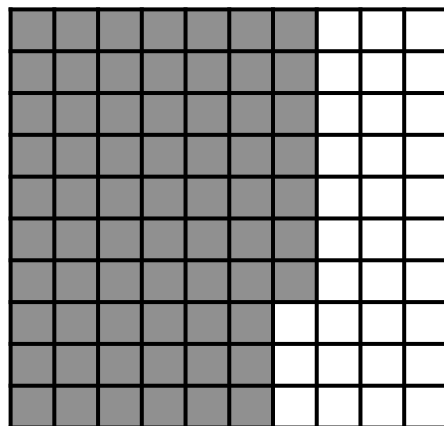
Here are some examples of how fractions relate to decimals...



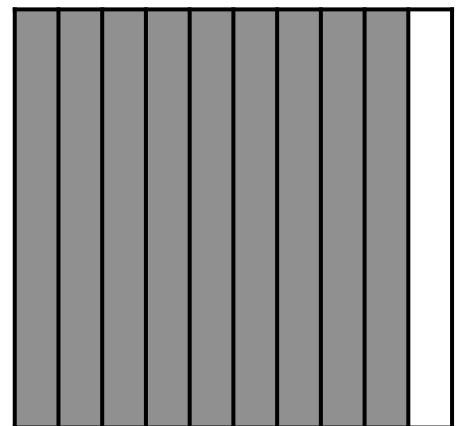
Write each of the following as a fraction and a decimal...



$\frac{\quad}{10}$



$\frac{\quad}{100}$



$\frac{\quad}{10}$

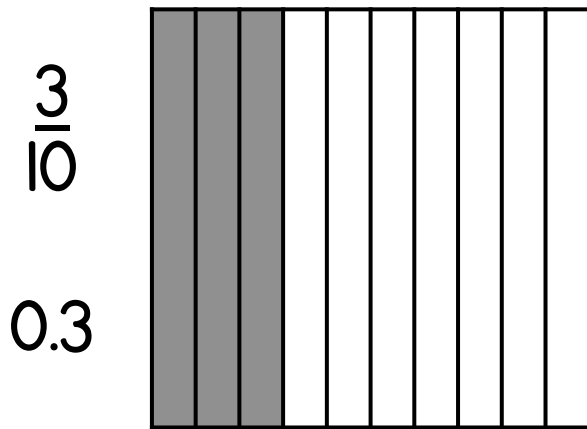
Answer Key

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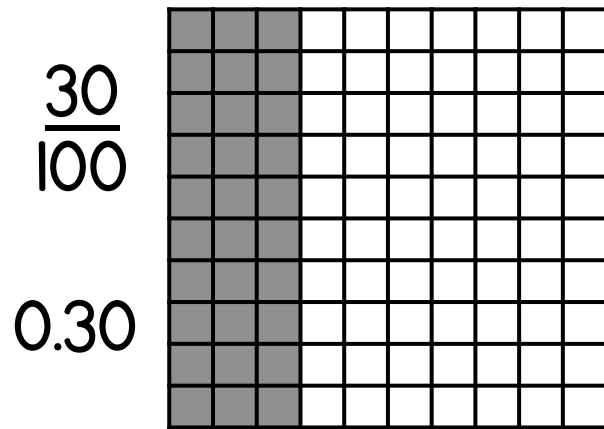
Relating Fractions & Decimals

- Decimal notation is another way to represent “part” of a whole.
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Here are some examples of how fractions relate to decimals...



three tenths

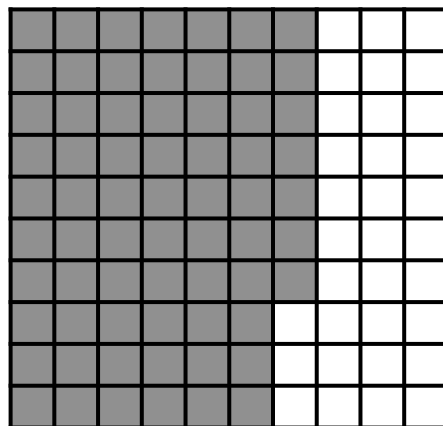


thirty hundredths

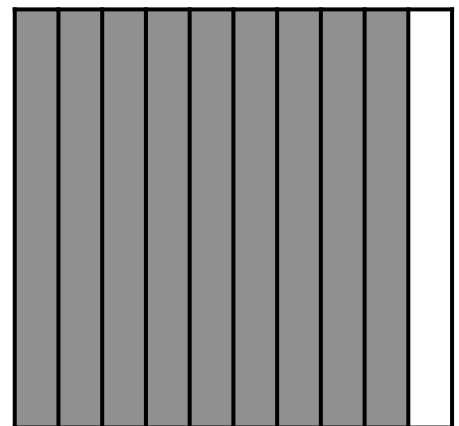
Write each of the following as a fraction and a decimal...



$$\frac{7}{10} \quad 0.7$$



$$\frac{67}{100} \quad 0.67$$

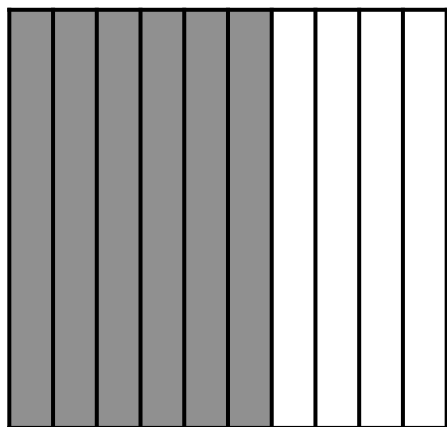


$$\frac{9}{10} \quad 0.9$$

Name: _____ Date: _____ Score: _____

Fractions & Decimals: Tenths

Write each of the following as a fraction, a decimal, and in word form...



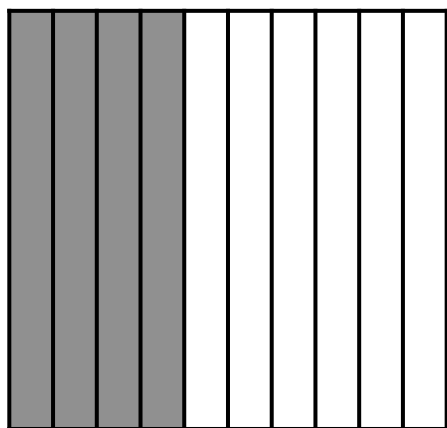
$\frac{\quad}{10}$

Word Form:



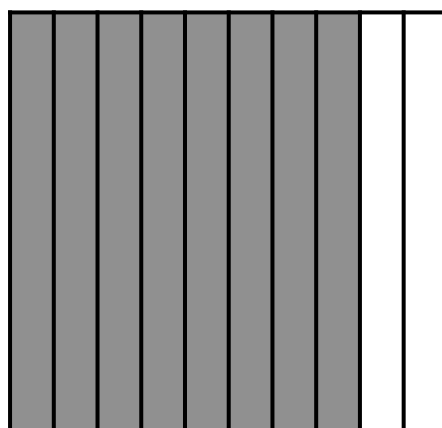
$\frac{\quad}{10}$

Word Form:



$\frac{\quad}{10}$

Word Form:



$\frac{\quad}{10}$

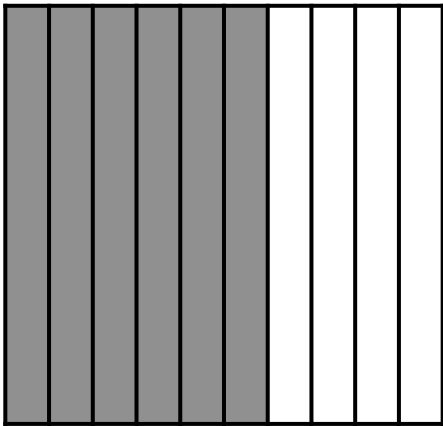
Word Form:

Answer Key

Name: _____ Date: _____ Score: _____

Fractions & Decimals: Tenths

Write each of the following as a fraction, a decimal, and in word form...

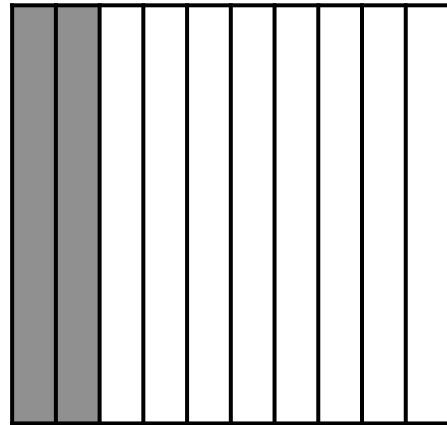


$$\frac{6}{10}$$

$$\underline{0.6}$$

Word Form:

Six tenths

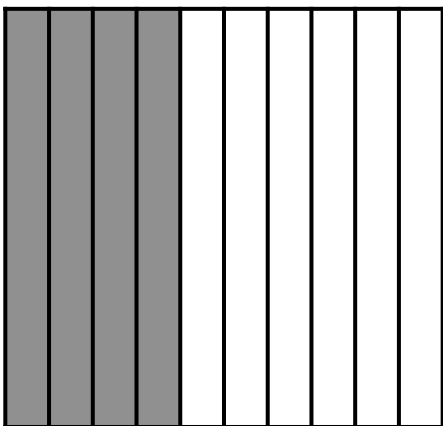


$$\frac{2}{10}$$

$$\underline{0.3}$$

Word Form:

Two tenths

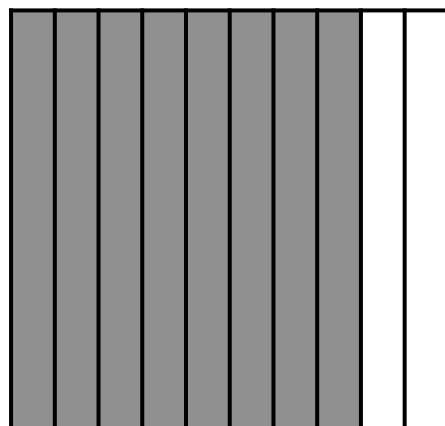


$$\frac{4}{10}$$

$$\underline{0.4}$$

Word Form:

Four tenths



$$\frac{8}{10}$$

$$\underline{0.8}$$

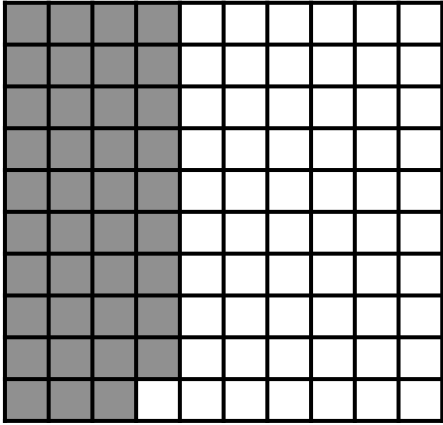
Word Form:

Eight tenths

Name: _____ Date: _____ Score: _____

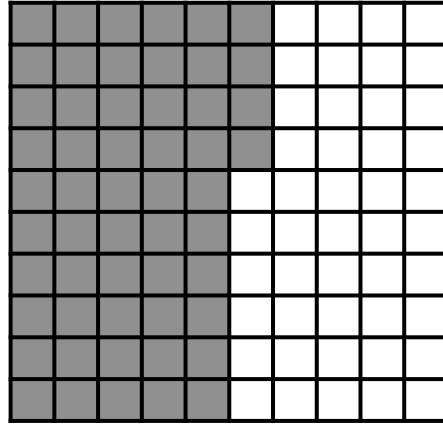
fractions & Decimals: Hundredths

Write each of the following as a fraction, a decimal, and in word form...



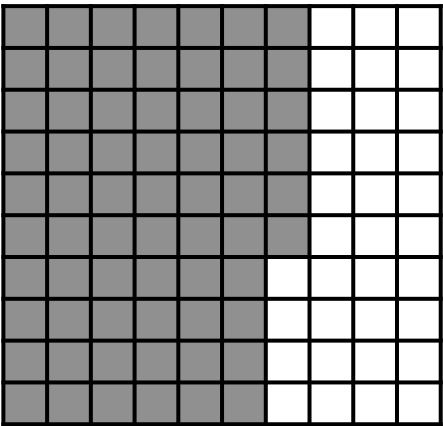
$\frac{\quad}{100}$

Word Form:



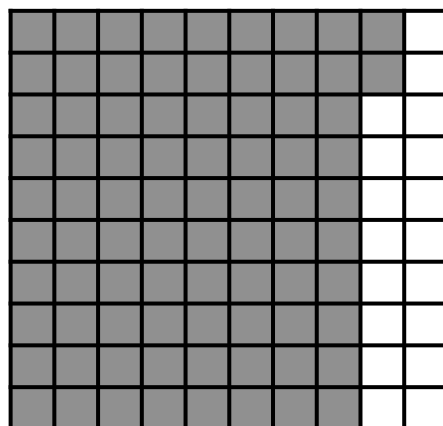
$\frac{\quad}{100}$

Word Form:



$\frac{\quad}{100}$

Word Form:



$\frac{\quad}{100}$

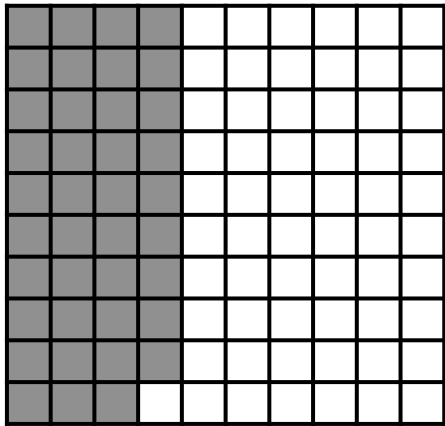
Word Form:

Answer Key

Name: _____ Date: _____ Score: _____

fractions & Decimals: Hundredths

Write each of the following as a fraction, a decimal, and in word form...

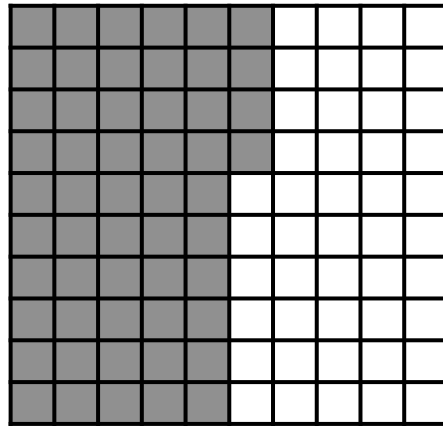


$$\frac{39}{100}$$

0.39

Word Form:

Thirty-nine hundredths

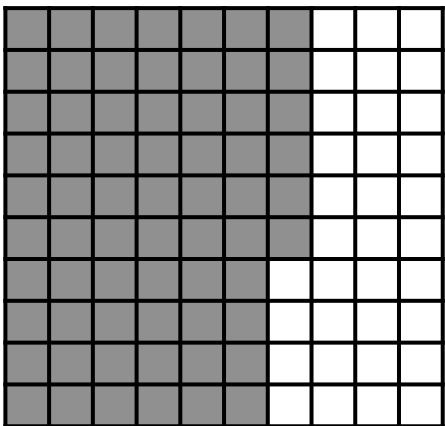


$$\frac{54}{100}$$

0.54

Word Form:

Fifty-four hundredths

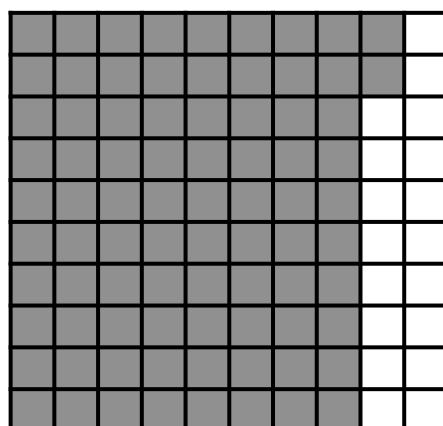


$$\frac{66}{100}$$

0.66

Word Form:

Sixty-six hundredths



$$\frac{82}{100}$$

0.82

Word Form:

Eighty-two hundredths

Name: _____ Date: _____ Score: _____

Fractions → Decimals: Tenths

Write each fraction as a decimal.

$$\frac{4}{10} = \underline{\hspace{2cm}}$$

$$\frac{6}{10} = \underline{\hspace{2cm}}$$

$$\frac{7}{10} = \underline{\hspace{2cm}}$$

$$\frac{5}{10} = \underline{\hspace{2cm}}$$

$$\frac{10}{10} = \underline{\hspace{2cm}}$$

$$\frac{9}{10} = \underline{\hspace{2cm}}$$

$$\frac{2}{10} = \underline{\hspace{2cm}}$$

$$\frac{3}{10} = \underline{\hspace{2cm}}$$

$$\frac{1}{10} = \underline{\hspace{2cm}}$$

Explain how you fractions and decimals are related and how you change a fraction to a decimal...

Answer Key

Name: _____ Date: _____ Score: _____

Fractions → Decimals: Tenths

Write each fraction as a decimal.

$$\frac{4}{10} = \underline{0.4}$$

$$\frac{6}{10} = \underline{0.6}$$

$$\frac{7}{10} = \underline{0.7}$$

$$\frac{5}{10} = \underline{0.5}$$

$$\frac{10}{10} = \underline{0.10}$$

$$\frac{9}{10} = \underline{0.9}$$

$$\frac{2}{10} = \underline{0.2}$$

$$\frac{3}{10} = \underline{0.3}$$

$$\frac{1}{10} = \underline{0.1}$$

Explain how you fractions and decimals are related and how you change a fraction to a decimal...

Responses will vary.

Name: _____ Date: _____ Score: _____

fractions → Decimals: Hundredths

Write each fraction as a decimal.

$$\frac{48}{100} = \underline{\hspace{2cm}}$$

$$\frac{65}{100} = \underline{\hspace{2cm}}$$

$$\frac{73}{100} = \underline{\hspace{2cm}}$$

$$\frac{54}{100} = \underline{\hspace{2cm}}$$

$$\frac{7}{100} = \underline{\hspace{2cm}}$$

$$\frac{99}{100} = \underline{\hspace{2cm}}$$

$$\frac{12}{100} = \underline{\hspace{2cm}}$$

$$\frac{36}{100} = \underline{\hspace{2cm}}$$

$$\frac{2}{100} = \underline{\hspace{2cm}}$$

$$\frac{18}{100} = \underline{\hspace{2cm}}$$

$$\frac{74}{100} = \underline{\hspace{2cm}}$$

$$\frac{88}{100} = \underline{\hspace{2cm}}$$

$$\frac{32}{100} = \underline{\hspace{2cm}}$$

$$\frac{25}{100} = \underline{\hspace{2cm}}$$

$$\frac{40}{100} = \underline{\hspace{2cm}}$$

Answer Key

Name: _____ Date: _____ Score: _____

Fractions → Decimals: Hundredths

Write each fraction as a decimal.

$$\frac{48}{100} = \underline{0.48}$$

$$\frac{65}{100} = \underline{0.65}$$

$$\frac{73}{100} = \underline{0.73}$$

$$\frac{54}{100} = \underline{0.54}$$

$$\frac{7}{100} = \underline{0.07}$$

$$\frac{99}{100} = \underline{0.99}$$

$$\frac{12}{100} = \underline{0.12}$$

$$\frac{36}{100} = \underline{0.36}$$

$$\frac{2}{100} = \underline{0.02}$$

$$\frac{18}{100} = \underline{0.18}$$

$$\frac{74}{100} = \underline{0.74}$$

$$\frac{88}{100} = \underline{0.88}$$

$$\frac{32}{100} = \underline{0.32}$$

$$\frac{25}{100} = \underline{0.25}$$

$$\frac{40}{100} = \underline{0.40}$$

Name: _____ Date: _____ Score: _____

Decimals → fractions: Tenths

Write each decimal as a fraction.

$0.9 = \underline{\quad}$

$0.2 = \underline{\quad}$

$0.6 = \underline{\quad}$

$0.5 = \underline{\quad}$

$0.3 = \underline{\quad}$

$1.0 = \underline{\quad}$

$0.4 = \underline{\quad}$

$0.8 = \underline{\quad}$

$0.7 = \underline{\quad}$

Explain how you change a fraction to a decimal...

Answer Key

Name: _____ Date: _____ Score: _____

Decimals → fractions: Tenths

Write each decimal as a fraction.

$$0.9 = \frac{9}{10}$$

$$0.2 = \frac{2}{10}$$

$$0.6 = \frac{6}{10}$$

$$0.5 = \frac{5}{10}$$

$$0.3 = \frac{3}{10}$$

$$1.0 = \frac{10}{10}$$

$$0.4 = \frac{4}{10}$$

$$0.8 = \frac{8}{10}$$

$$0.7 = \frac{7}{10}$$

Explain how you change a fraction to a decimal...

Responses will vary.

Name: _____ Date: _____ Score: _____

Decimals → fractions: Hundredths

Write each decimal as a fraction.

$0.29 = \underline{\quad}$

$0.45 = \underline{\quad}$

$0.08 = \underline{\quad}$

$0.56 = \underline{\quad}$

$0.21 = \underline{\quad}$

$0.98 = \underline{\quad}$

$0.09 = \underline{\quad}$

$0.50 = \underline{\quad}$

$0.13 = \underline{\quad}$

$0.22 = \underline{\quad}$

$0.05 = \underline{\quad}$

$0.84 = \underline{\quad}$

$0.42 = \underline{\quad}$

$0.63 = \underline{\quad}$

$0.80 = \underline{\quad}$

Answer Key

Name: _____ Date: _____ Score: _____

Decimals → fractions: Hundredths

Write each decimal as a fraction.

$$0.29 = \frac{29}{100}$$

$$0.45 = \frac{45}{100}$$

$$0.08 = \frac{8}{100}$$

$$0.56 = \frac{56}{100}$$

$$0.21 = \frac{21}{100}$$

$$0.98 = \frac{98}{100}$$

$$0.09 = \frac{9}{100}$$

$$0.50 = \frac{50}{100}$$

$$0.13 = \frac{13}{100}$$

$$0.22 = \frac{22}{100}$$

$$0.05 = \frac{5}{100}$$

$$0.84 = \frac{84}{100}$$

$$0.42 = \frac{42}{100}$$

$$0.63 = \frac{63}{100}$$

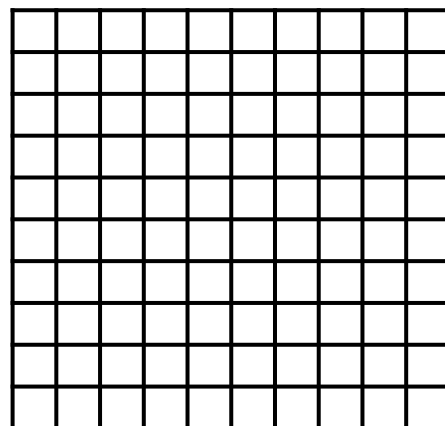
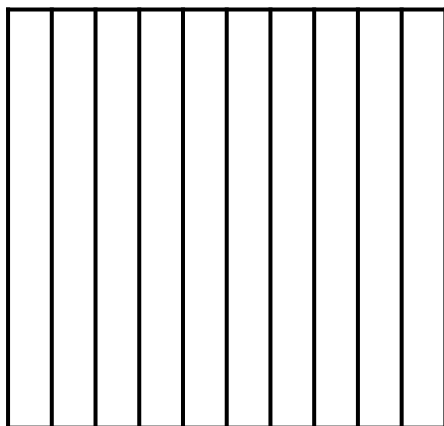
$$0.80 = \frac{80}{100}$$

Name: _____ Date: _____ Score: _____

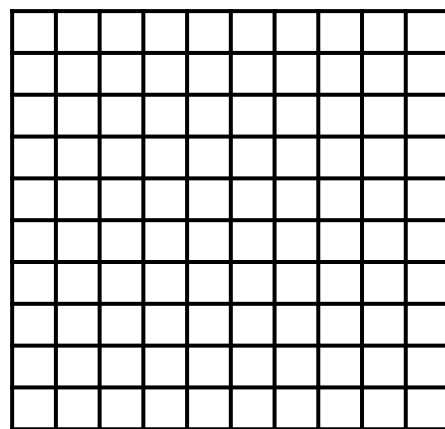
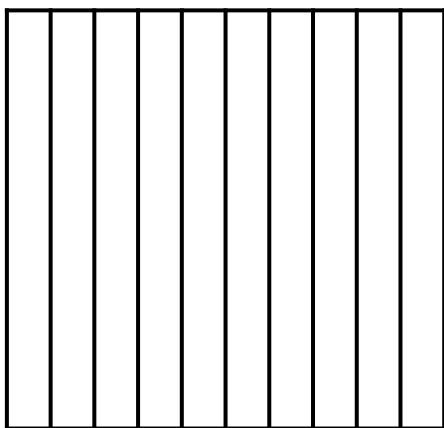
Comparing Decimals Using Models

Color the models to help compare each set of decimals.

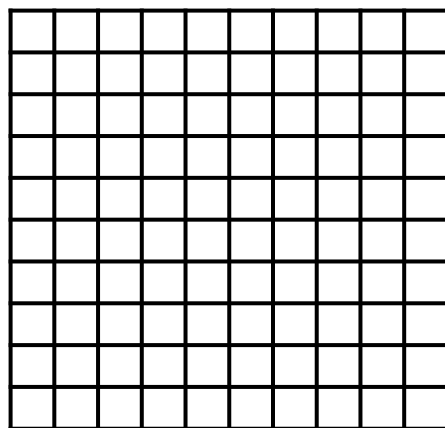
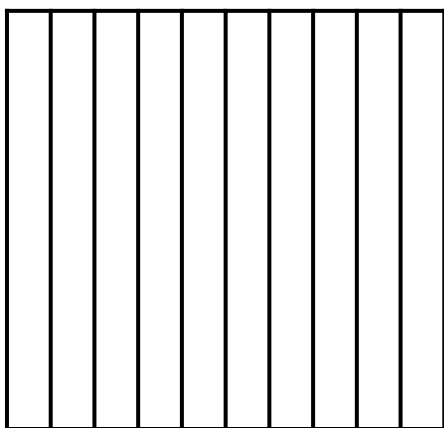
0.8 ___ 0.79



0.3 ___ 0.29



0.4 ___ 0.40



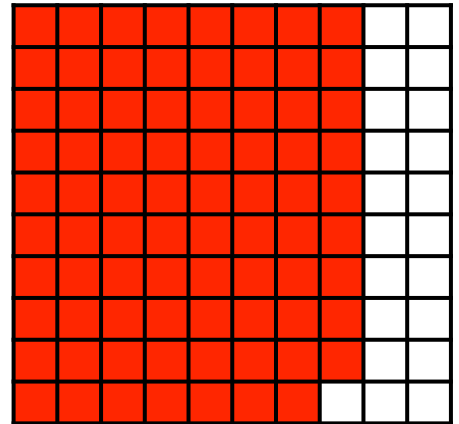
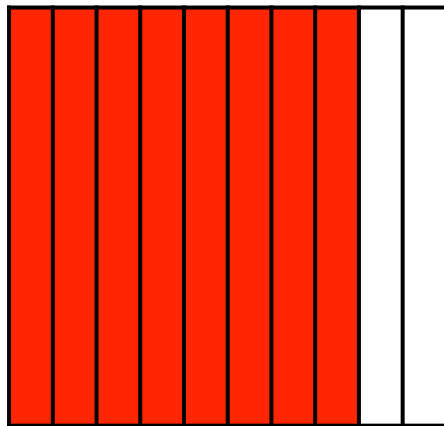
Answer Key

Name: _____ Date: _____ Score: _____

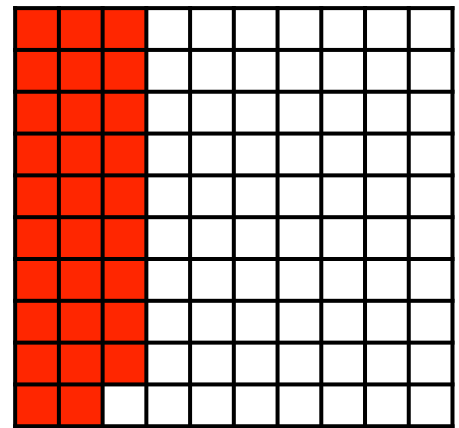
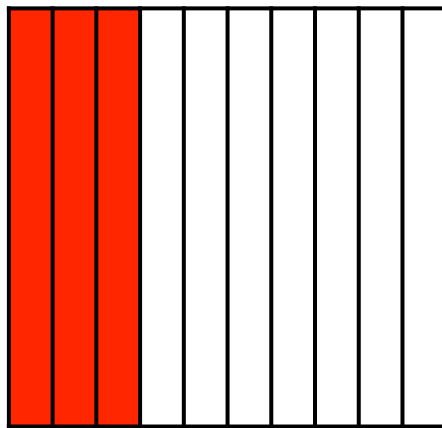
Comparing Decimals Using Models

Color the models to help compare each set of decimals.

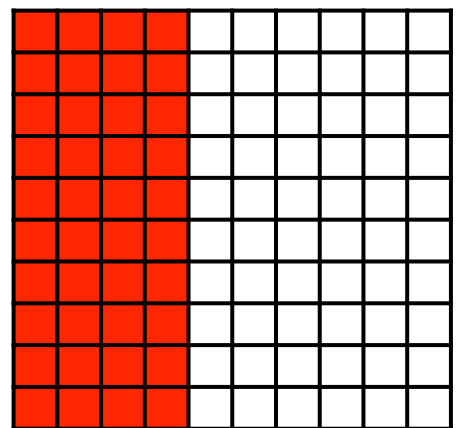
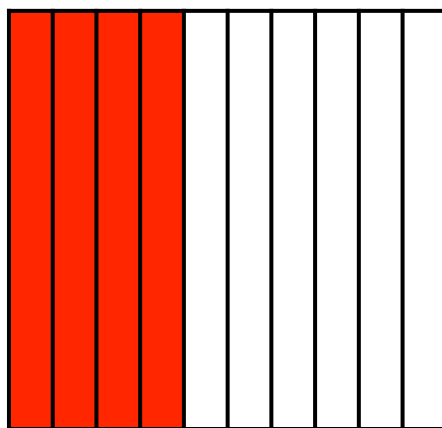
$$0.8 > 0.79$$



$$0.3 > 0.29$$



$$0.4 = 0.40$$



Name: _____ Date: _____ Score: _____

Comparing Decimals

Compare each set of decimals.

0.9 ___ 0.99

0.33 ___ 0.32

0.8 ___ 0.80

0.55 ___ 0.45

0.28 ___ 0.82

0.1 ___ 0.01

0.06 ___ 0.7

0.3 ___ 0.25

0.15 ___ 0.5

0.31 ___ 0.13

0.48 ___ 0.5

0.4 ___ 0.33

0.63 ___ 0.36

0.7 ___ 0.70

0.04 ___ 0.4

0.22 ___ 0.3

0.42 ___ 0.24

0.89 ___ 0.79

Answer Key

Name: _____ Date: _____ Score: _____

Comparing Decimals

Compare each set of decimals.

$0.9 < 0.99$

$0.33 > 0.32$

$0.8 = 0.80$

$0.55 > 0.45$

$0.28 < 0.82$

$0.1 > 0.01$

$0.06 < 0.7$

$0.3 > 0.25$

$0.15 < 0.5$

$0.31 > 0.13$

$0.48 < 0.5$

$0.4 > 0.33$

$0.63 > 0.36$

$0.7 = 0.70$

$0.04 < 0.4$

$0.22 < 0.3$

$0.42 > 0.24$

$0.89 > 0.79$

Name: _____ Date: _____ Score: _____

Ordering Decimals

Order each set of decimals from least to greatest.

0.6 0.06 0.66 0.07

0.33 0.3 0.03 0.35

0.8 0.07 0.08 0.77

0.04 0.05 0.5 0.45

Order each set of decimals from greatest to least.

0.9 0.88 0.8 0.09

0.46 0.04 0.6 0.4

0.2 0.29 0.03 0.39

Answer Key

Name: _____ Date: _____ Score: _____

Ordering Decimals

Order each set of decimals from least to greatest.

0.6 0.06 0.66 0.07 0.06 0.07 0.6 0.66

0.33 0.3 0.03 0.35 0.03 0.3 0.33 0.35

0.8 0.07 0.08 0.77 0.07 0.08 0.77 0.8

0.04 0.05 0.5 0.45 0.04 0.05 0.45 0.5

Order each set of decimals from greatest to least.

0.9 0.88 0.8 0.09 0.09 0.8 0.88 0.9

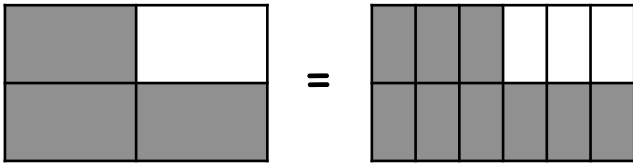
0.46 0.04 0.6 0.4 0.04 0.4 0.46 0.6

0.2 0.29 0.03 0.39 0.03 0.2 0.29 0.39

Name: _____ Date: _____ Score: _____

Fractions Assessment

1. Use the diagram below to tell which fraction is equivalent to $\frac{3}{4}$?



- A. $\frac{9}{10}$ C. $\frac{6}{12}$
B. $\frac{6}{8}$ D. $\frac{9}{12}$

4.NF.1

2. Which of the following is NOT equivalent to $\frac{3}{6}$?

- A. $\frac{1}{2}$ C. $\frac{5}{8}$
B. $\frac{2}{4}$ D. $\frac{5}{10}$

4.NF.1

3. When comparing $\frac{2}{3}$ and $\frac{3}{4}$, which of the following shows the fractions written correctly and compared with common denominators?

- A. $\frac{8}{12} > \frac{9}{12}$
B. $\frac{8}{12} < \frac{9}{12}$
C. $\frac{6}{12} < \frac{8}{12}$
D. $\frac{9}{12} > \frac{6}{12}$

4.NF.2

4. Which of the following shows an accurate comparison?

- A. $\frac{1}{4} > \frac{1}{2}$ C. $\frac{3}{10} > \frac{7}{8}$
B. $\frac{5}{6} > \frac{2}{3}$ D. $\frac{3}{8} > \frac{2}{3}$

4.NF.2

5. Which of the following sets of fractions is in order from least to greatest?

- A. $\frac{5}{6}$ $\frac{2}{3}$ $\frac{1}{4}$ $\frac{1}{2}$
B. $\frac{2}{3}$ $\frac{1}{4}$ $\frac{1}{2}$ $\frac{5}{6}$
C. $\frac{1}{2}$ $\frac{1}{4}$ $\frac{5}{6}$ $\frac{2}{3}$
D. $\frac{1}{4}$ $\frac{1}{2}$ $\frac{2}{3}$ $\frac{5}{6}$

4.NF.2

6. Which of the following sets of fractions is in order from greatest to least?

- A. $\frac{9}{12}$ $\frac{5}{8}$ $\frac{5}{10}$ $\frac{2}{6}$
B. $\frac{5}{10}$ $\frac{2}{6}$ $\frac{5}{8}$ $\frac{9}{12}$
C. $\frac{2}{6}$ $\frac{5}{8}$ $\frac{9}{12}$ $\frac{5}{10}$
D. $\frac{2}{6}$ $\frac{5}{10}$ $\frac{9}{12}$ $\frac{5}{8}$

4.NF.2

Fractions Assessment – Page 2

7. Which of the following is NOT an example of $\frac{5}{8}$ decomposed?

- A. $\frac{3}{8} + \frac{2}{8}$
- B. $\frac{2}{8} + \frac{2}{8} + \frac{1}{8}$
- C. $\frac{4}{8} + \frac{2}{8}$
- D. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{2}{8}$

4.NF.3

8. Which of the following shows a fraction accurately decomposed?

- A. $\frac{2}{5} + \frac{2}{5} = \frac{5}{5}$
- B. $\frac{1}{5} + \frac{1}{5} + \frac{2}{5} = \frac{4}{5}$
- C. $\frac{4}{8} + \frac{3}{8} = \frac{6}{8}$
- D. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{4}{8}$

4.NF.3

9. What is the sum of $\frac{2}{10}$ and $\frac{5}{10}$?

- A. $\frac{8}{10}$
- B. $\frac{7}{10}$
- C. $\frac{6}{10}$
- D. $\frac{7}{8}$

4.NF.3

10. Find the difference:

$$\frac{5}{6} - \frac{2}{6}$$

- A. $\frac{2}{6}$
- B. $\frac{2}{5}$
- C. $\frac{3}{6}$
- D. $\frac{3}{5}$

4.NF.3

11. What is the sum of $2\frac{3}{8}$ and $1\frac{2}{8}$?

- A. $3\frac{4}{8}$
- B. $2\frac{2}{8}$
- C. $3\frac{5}{8}$
- D. $2\frac{1}{8}$

4.NF.3

12. Find the sum:

$$\frac{5}{10} + \frac{30}{100}$$

- A. $\frac{8}{100}$
- B. $\frac{8}{10}$
- C. $\frac{20}{100}$
- D. $\frac{2}{10}$

4.NF.5

13. Find the difference:

$$5\frac{8}{10} - 2\frac{5}{10}$$

- A. $2\frac{5}{10}$
- B. $3\frac{3}{10}$
- C. $2\frac{3}{10}$
- D. $3\frac{5}{10}$

4.NF.3

14. Find the product:

$$7 \times \frac{1}{4}$$

- A. $\frac{8}{4}$
- B. $\frac{7}{8}$
- C. $\frac{7}{2}$
- D. $\frac{7}{4}$

4.NF.4

15. Find the product:

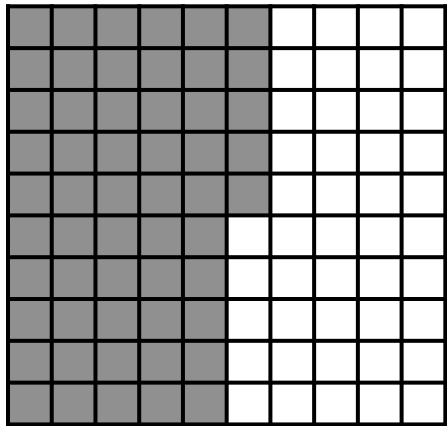
$$3 \times \frac{3}{4}$$

- A. $\frac{9}{4}$
- B. $\frac{9}{8}$
- C. $\frac{9}{2}$
- D. $\frac{6}{4}$

4.NF.4

Fractions Assessment – Page 3

16. Which decimal is represented by the following model?



- A. 0.54 C. 0.55
B. 5.4 D. 5.5

4.NF.6

17. Which of the following is NOT an example of an equivalent fraction and decimal?

- A. $0.8 = \frac{8}{10}$
B. $0.2 = \frac{2}{100}$
C. $0.28 = \frac{28}{100}$
D. $0.82 = \frac{82}{100}$

4.NF.6

18. Which of the following shows seven tenths as a decimal and a fraction?

- A. 0.07, $\frac{7}{10}$ C. 0.7, $\frac{7}{10}$
B. 0.07, $\frac{7}{100}$ D. 0.7, $\frac{7}{100}$

4.NF.6

19. Which of the following shows fifty-four hundredths as a decimal and a fraction?

- A. 0.54, $\frac{54}{10}$ C. 5.4, $\frac{54}{10}$
B. 0.54, $\frac{54}{100}$ D. 5.4, $\frac{54}{100}$

4.NF.6

20. Which of the following shows an accurate comparison?

- A. $0.5 < 0.05$ C. $0.55 < 0.50$
B. $0.5 > 0.05$ D. $0.55 < 0.05$

4.NF.7

21. Which of the following sets of decimals is in order from least to greatest?

- A. 0.33, 0.3, 0.03, 0.4
B. 0.3, 0.4, 0.03, 0.33
C. 0.03, 0.3, 0.4, 0.33
D. 0.03, 0.3, 0.33, 0.4

4.NF.7

22. Which of the following sets of decimals is in order from greatest to least?

- A. 0.89, 0.9, 0.08, 0.8
B. 0.9, 0.89, 0.8, 0.08,
C. 0.08, 0.8, 0.89, 0.9
D. 0.9, 0.8, 0.08, 0.89

4.NF.7

Fractions Assessment – Page 4

23. Margo and Carlos shared a box of cookies. Margo ate $\frac{1}{5}$ of the box and Carlos ate $\frac{2}{5}$ of the box. What fraction of the cookies did they eat altogether?

- A. $\frac{1}{5}$ of the cookies
- B. $\frac{3}{5}$ of the cookies
- C. $\frac{4}{5}$ of the cookies
- D. $\frac{3}{10}$ of the cookies

4.NF.3

24. Rhonda has $\frac{3}{4}$ of her book left to read. If she reads another $\frac{1}{4}$ of the book, then how much will she have left to read?

- A. $\frac{1}{4}$ of the book
- B. $\frac{5}{8}$ of the book
- C. $\frac{2}{4}$ of the book
- D. $\frac{4}{8}$ of the book

4.NF.3

25. Chris made raspberry lemonade for his classroom party. He combined $2\frac{3}{10}$ cups of lemonade with $1\frac{1}{10}$ cups of raspberry juice. How much raspberry lemonade did he make?

- A. $2\frac{2}{10}$ cups
- B. $3\frac{2}{10}$ cups
- C. $2\frac{4}{10}$ cups
- D. $3\frac{4}{10}$ cups

4.NF.3

26. Jordan and Emily made beaded necklaces to give to their mothers. Jordan's necklace was $5\frac{1}{3}$ inches long and Emily's necklace was $6\frac{2}{3}$ inches long. How much longer was Emily's necklace than Jordan's?

- A. $1\frac{2}{3}$ inches
- B. $1\frac{1}{3}$ inches
- C. $1\frac{1}{3}$ inches
- D. $1\frac{3}{6}$ inches

4.NF.3

27. While making pasta, Roger pours water into a pot using a measuring cup that holds $\frac{3}{4}$ of a cup of water. He pours in 6 full measuring cups into the pot. How much water does Roger use to make his pasta?

- A. $\frac{8}{4}$ cups
- B. $\frac{9}{4}$ cups
- C. $\frac{18}{4}$ cups
- D. $\frac{9}{10}$ cups

4.NF.4

28. Elizabeth hikes $\frac{2}{3}$ of a mile every day for one week. How many total miles does Elizabeth hike by the end of the week?

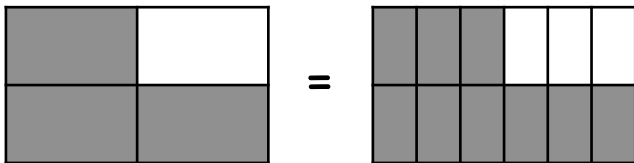
- A. $\frac{14}{3}$ miles
- B. $\frac{14}{21}$ miles
- C. $\frac{7}{3}$ miles
- D. $\frac{9}{3}$ miles

4.NF.4

Name: _____ Date: _____ Score: _____

Fractions Assessment

1. Use the diagram below to tell which fraction is equivalent to $\frac{3}{4}$?



- A. $\frac{9}{10}$ C. $\frac{6}{12}$
 B. $\frac{6}{8}$ **D. $\frac{9}{12}$**

4.NF.1

2. Which of the following is NOT equivalent to $\frac{3}{6}$?

- A. $\frac{1}{2}$ **C. $\frac{5}{8}$**
 B. $\frac{2}{4}$ D. $\frac{5}{10}$

4.NF.1

3. When comparing $\frac{2}{3}$ and $\frac{3}{4}$, which of the following shows the fractions written correctly and compared with common denominators?

- A. $\frac{8}{12} > \frac{9}{12}$
B. $\frac{8}{12} < \frac{9}{12}$
 C. $\frac{6}{12} < \frac{8}{12}$
 D. $\frac{9}{12} > \frac{6}{12}$

4.NF.2

4. Which of the following shows an accurate comparison?

- A. $\frac{1}{4} > \frac{1}{2}$ C. $\frac{3}{10} > \frac{7}{8}$
B. $\frac{5}{6} > \frac{2}{3}$ D. $\frac{3}{8} > \frac{2}{3}$

4.NF.2

5. Which of the following sets of fractions is in order from least to greatest?

- A. $\frac{5}{6}$ $\frac{2}{3}$ $\frac{1}{4}$ $\frac{1}{2}$
 B. $\frac{2}{3}$ $\frac{1}{4}$ $\frac{1}{2}$ $\frac{5}{6}$
 C. $\frac{1}{2}$ $\frac{1}{4}$ $\frac{5}{6}$ $\frac{2}{3}$
D. $\frac{1}{4}$ $\frac{1}{2}$ $\frac{2}{3}$ $\frac{5}{6}$

4.NF.2

6. Which of the following sets of fractions is in order from greatest to least?

- A. $\frac{9}{12}$ $\frac{5}{8}$ $\frac{5}{10}$ $\frac{2}{6}$**
 B. $\frac{5}{10}$ $\frac{2}{6}$ $\frac{5}{8}$ $\frac{9}{12}$
 C. $\frac{2}{6}$ $\frac{5}{8}$ $\frac{9}{12}$ $\frac{5}{10}$
 D. $\frac{2}{6}$ $\frac{5}{10}$ $\frac{9}{12}$ $\frac{5}{8}$

4.NF.2

Fractions Assessment – Page 2

7. Which of the following is NOT an example of $\frac{5}{8}$ decomposed?

A. $\frac{3}{8} + \frac{2}{8}$

B. $\frac{2}{8} + \frac{2}{8} + \frac{1}{8}$

C. $\frac{4}{8} + \frac{2}{8}$

D. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{2}{8}$

4.NF.3

8. Which of the following shows a fraction accurately decomposed?

A. $\frac{2}{5} + \frac{2}{5} = \frac{5}{5}$

B. $\frac{1}{5} + \frac{1}{5} + \frac{2}{5} = \frac{4}{5}$

C. $\frac{4}{8} + \frac{3}{8} = \frac{6}{8}$

D. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{4}{8}$

4.NF.3

9. What is the sum of $\frac{2}{10}$ and $\frac{5}{10}$?

A. $\frac{8}{10}$

C. $\frac{6}{10}$

B. $\frac{7}{10}$

D. $\frac{7}{8}$

4.NF.3

10. Find the difference:

$$\frac{5}{6} - \frac{2}{6}$$

A. $\frac{2}{6}$

C. $\frac{3}{6}$

B. $\frac{2}{5}$

D. $\frac{3}{5}$

4.NF.3

11. What is the sum of $2\frac{3}{8}$ and $1\frac{2}{8}$?

A. $3\frac{4}{8}$

C. $3\frac{5}{8}$

B. $2\frac{2}{8}$

D. $2\frac{1}{8}$

4.NF.3

12. Find the sum:

$$\frac{5}{10} + \frac{30}{100}$$

A. $\frac{8}{100}$

C. $\frac{20}{100}$

B. $\frac{8}{10}$

D. $\frac{2}{10}$

4.NF.5

13. Find the difference:

$$5\frac{8}{10} - 2\frac{5}{10}$$

A. $2\frac{5}{10}$

C. $2\frac{3}{10}$

B. $3\frac{3}{10}$

D. $3\frac{5}{10}$

4.NF.3

14. Find the product:

$$7 \times \frac{1}{4}$$

A. $\frac{8}{4}$

C. $\frac{7}{2}$

B. $\frac{7}{8}$

D. $\frac{7}{4}$

4.NF.4

15. Find the product:

$$3 \times \frac{3}{4}$$

A. $\frac{9}{4}$

C. $\frac{9}{2}$

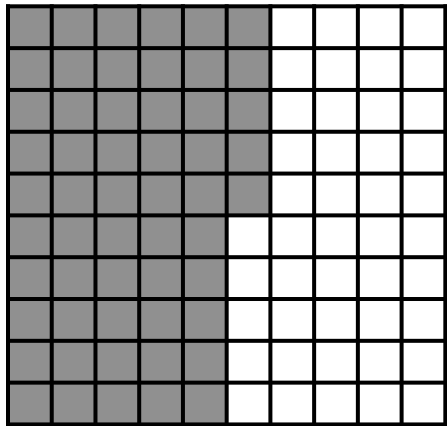
B. $\frac{9}{8}$

D. $\frac{6}{4}$

4.NF.4

Fractions Assessment – Page 3

16. Which decimal is represented by the following model?



- A. 0.54 C. 0.55
B. 5.4 D. 5.5

4.NF.6

17. Which of the following is NOT an example of an equivalent fraction and decimal?

- A. $0.8 = \frac{8}{10}$
 B. $0.2 = \frac{2}{100}$
C. $0.28 = \frac{28}{100}$
D. $0.82 = \frac{82}{100}$

4.NF.6

18. Which of the following shows seven tenths as a decimal and a fraction?

- A. $0.07, \frac{7}{10}$ C. $0.7, \frac{7}{10}$
B. $0.07, \frac{7}{100}$ D. $0.7, \frac{7}{100}$

4.NF.6

19. Which of the following shows fifty-four hundredths as a decimal and a fraction?

- A. $0.54, \frac{54}{10}$ C. $5.4, \frac{54}{10}$
 B. $0.54, \frac{54}{100}$ D. $5.4, \frac{54}{100}$

4.NF.6

20. Which of the following shows an accurate comparison?

- A. $0.5 < 0.05$ C. $0.55 < 0.50$
 B. $0.5 > 0.05$ D. $0.55 < 0.05$

4.NF.7

21. Which of the following sets of decimals is in order from least to greatest?

- A. 0.33, 0.3, 0.03, 0.4
B. 0.3, 0.4, 0.03, 0.33
C. 0.03, 0.3, 0.4, 0.33
 D. 0.03, 0.3, 0.33, 0.4

4.NF.7

22. Which of the following sets of decimals is in order from greatest to least?

- A. 0.89, 0.9, 0.08, 0.8
 B. 0.9, 0.89, 0.8, 0.08,
C. 0.08, 0.8, 0.89, 0.9
D. 0.9, 0.8, 0.08, 0.89

4.NF.7

Fractions Assessment – Page 4

23. Margo and Carlos shared a box of cookies. Margo ate $\frac{1}{5}$ of the box and Carlos ate $\frac{2}{5}$ of the box. What fraction of the cookies did they eat altogether?

- A. $\frac{1}{5}$ of the cookies
- B. $\frac{3}{5}$ of the cookies
- C. $\frac{4}{5}$ of the cookies
- D. $\frac{3}{10}$ of the cookies

4.NF.3

24. Rhonda has $\frac{3}{4}$ of her book left to read. If she reads another $\frac{1}{4}$ of the book, then how much will she have left to read?

- A. $\frac{1}{4}$ of the book
- B. $\frac{5}{8}$ of the book
- C. $\frac{2}{4}$ of the book
- D. $\frac{4}{8}$ of the book

4.NF.3

25. Chris made raspberry lemonade for his classroom party. He combined $2\frac{3}{10}$ cups of lemonade with $1\frac{1}{10}$ cups of raspberry juice. How much raspberry lemonade did he make?

- A. $2\frac{2}{10}$ cups
- B. $3\frac{2}{10}$ cups.
- C. $2\frac{4}{10}$ cups
- D. $3\frac{4}{10}$ cups

4.NF.3

26. Jordan and Emily made beaded necklaces to give to their mothers. Jordan's necklace was $5\frac{1}{3}$ inches long and Emily's necklace was $6\frac{2}{3}$ inches long. How much longer was Emily's necklace than Jordan's?

- A. $1\frac{2}{3}$ inches
- B. $1\frac{1}{3}$ inches
- C. $1\frac{1}{3}$ inches
- D. $1\frac{3}{6}$ inches

4.NF.3

27. While making pasta, Roger pours water into a pot using a measuring cup that holds $\frac{3}{4}$ of a cup of water. He pours in 6 full measuring cups into the pot. How much water does Roger use to make his pasta?

- A. $\frac{8}{4}$ cups
- B. $\frac{9}{4}$ cups
- C. $\frac{18}{4}$ cups
- D. $\frac{9}{10}$ cups

4.NF.4

28. Elizabeth hikes $\frac{2}{3}$ of a mile every day for one week. How many total miles does Elizabeth hike by the end of the week?

- A. $\frac{14}{3}$ miles
- B. $\frac{14}{21}$ miles
- C. $\frac{7}{3}$ miles
- D. $\frac{9}{3}$ miles

4.NF.4

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