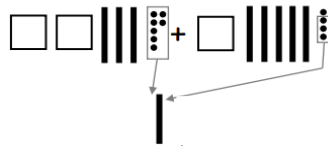


"Base-10 Notation"

$$237 + 154 = 391$$



"Partial Sums"

$$242 + 567 = 809$$

$$\left. \begin{array}{l} 200 + 500 = 700 \\ 40 + 60 = 100 \\ 2 + 7 = 9 \end{array} \right\} = 809$$

1. Accurately adds 3-digit numbers using strategies based on place value

"V Strategy"

$$247 + 575 = 822$$



$$700 + 110 + 12 = 822$$

2. Accurately subtracts 3-digit numbers using strategies based on place value

(The traditional algorithm is a grade 4 standard.)

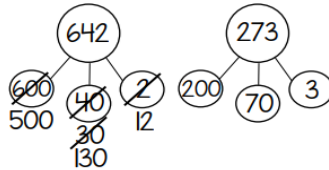
"Base-10 Notation"

$$443 - 126 = 317$$



"Number Bonds"

$$642 - 273 = 369$$



$$\begin{array}{l} 500 - 200 = 300 \\ 130 - 70 = 60 \\ 12 - 3 = 9 \\ 300 + 60 + 9 = 369 \end{array}$$

"The Arrow Method"

$$184 - 76 = 108$$

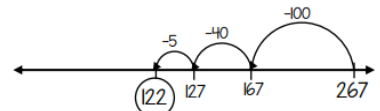
$$184 \xrightarrow{-70} 114 \xrightarrow{-6} 108$$

"Partial Differences"

$$765 - 284 = 481$$

$$\begin{array}{l} 765 - 200 = 565 \\ 565 - 80 = 485 \\ 485 - 4 = 481 \end{array}$$

"Jumps on the number line" $267 - 145 = 122$

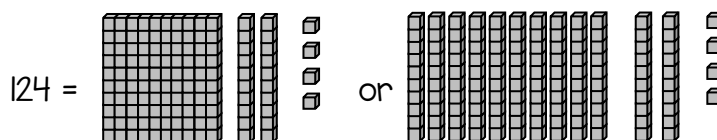


In the number 1,362:

The 1 is in the thousands place so it has a value of 1,000.
The 3 is in the hundreds place so it has a value of 300.
The 6 is in the tens place so it has a value of 60.
The 2 is in the ones place so it has a value of 2.

3. Applies place value understanding to multi-digit whole numbers

124 = 1 hundred + 2 tens + 4 ones
124 = 12 tens + 4 ones



(The traditional algorithm is a grade 4 standard.)

I could round 124 to the nearest ten by thinking of 124 as 12 tens and 4 ones.
124 is closer to 12 tens than 13 tens so 124 rounds down to 120.

4. Fluently multiplies within 100 with automaticity

Student can orally state or write the product (answer to a multiplication equation) within 3 seconds.

5. Fluently divides within 100 with automaticity

Student can orally state or write the quotient (answer to a division equation) within 3 seconds

6. Demonstrates understanding of multiplication and division and the relationship between them

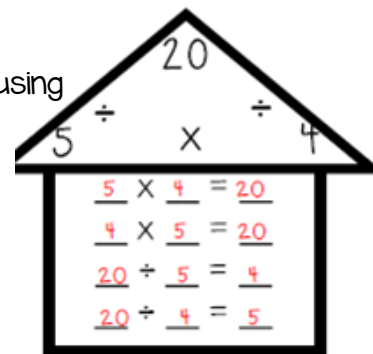
A fact family is a group of related facts using the same numbers.

Multiplication is:

of rows \times # of columns = total

Division is:

total \div # of rows = # of columns



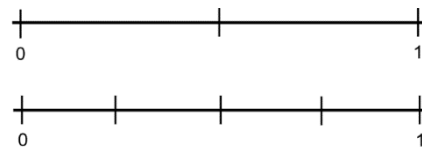
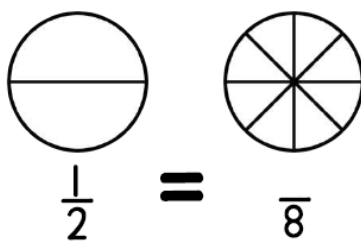
7. Demonstrates understanding of area

The area of a shape/figure tells us the amount of space inside it. We can determine the area by counting the square units inside or by multiplying the length by the width if the shape is a rectangle.

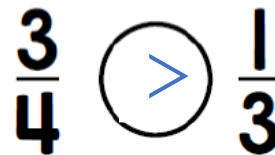
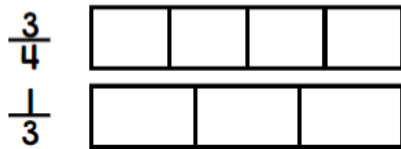
Sometimes, we have to break an irregular shape into multiple rectangles, find the area of each rectangle and then put them back together (by adding each area).



8. Accurately recognizes and generates equivalent fractions using visual models

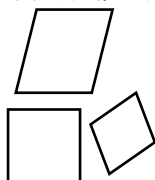


9. Accurately compares fractions using visual models

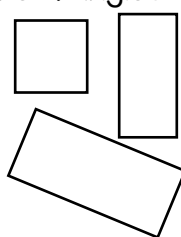


10. Accurately classifies geometric shapes using attributes

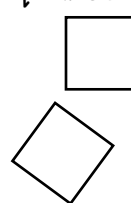
rhombuses



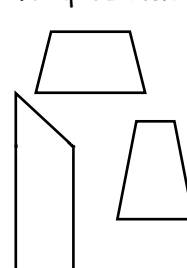
rectangles



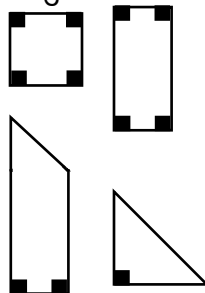
squares



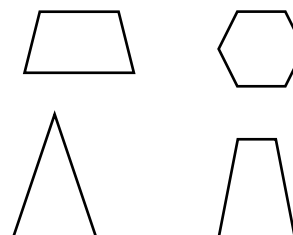
trapezoids



These shapes have right angles.



These shapes have NO right angles.

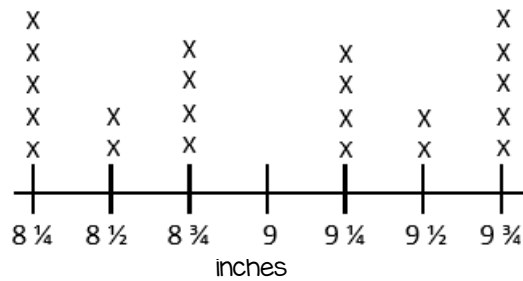


11. Solves problems involving measurement of intervals of time, liquid volume, mass, and perimeter

Examples include (but are not limited to):

- Sadie had been practicing basketball for 45 minutes when she was called in for dinner at 6:15. At what time did Sadie start practicing basketball?
- Jaq wants to split 21 kilograms of apples into 3 equal bags. How many kilograms of apples will be in each bag?
- Mel made square a playspace for his pet bunny. Each side was 3 feet long. How many feet of fencing did Mel use?

12. Represents and interprets data



X = one object

A third-grade student may collect objects around the classroom, measure and plot them on this line plot. The student can then answer questions such as, how many objects were longer than $9\frac{1}{4}$ inches long? (7 items)

13. Accurately solves word problems using all four operations

Ex. Sadie's tablet can fit 16 apps on a screen. There are 3 rows of 4 apps showing already. How many more apps will fit on the screen?

Zion is packing up all of books he has outgrown to pass down to his sister. Zion has 3 baskets and 31 books. He ended up recycling 4 books because they were all ripped. If he puts the same number of books in each basket, how many books will he put in each basket?