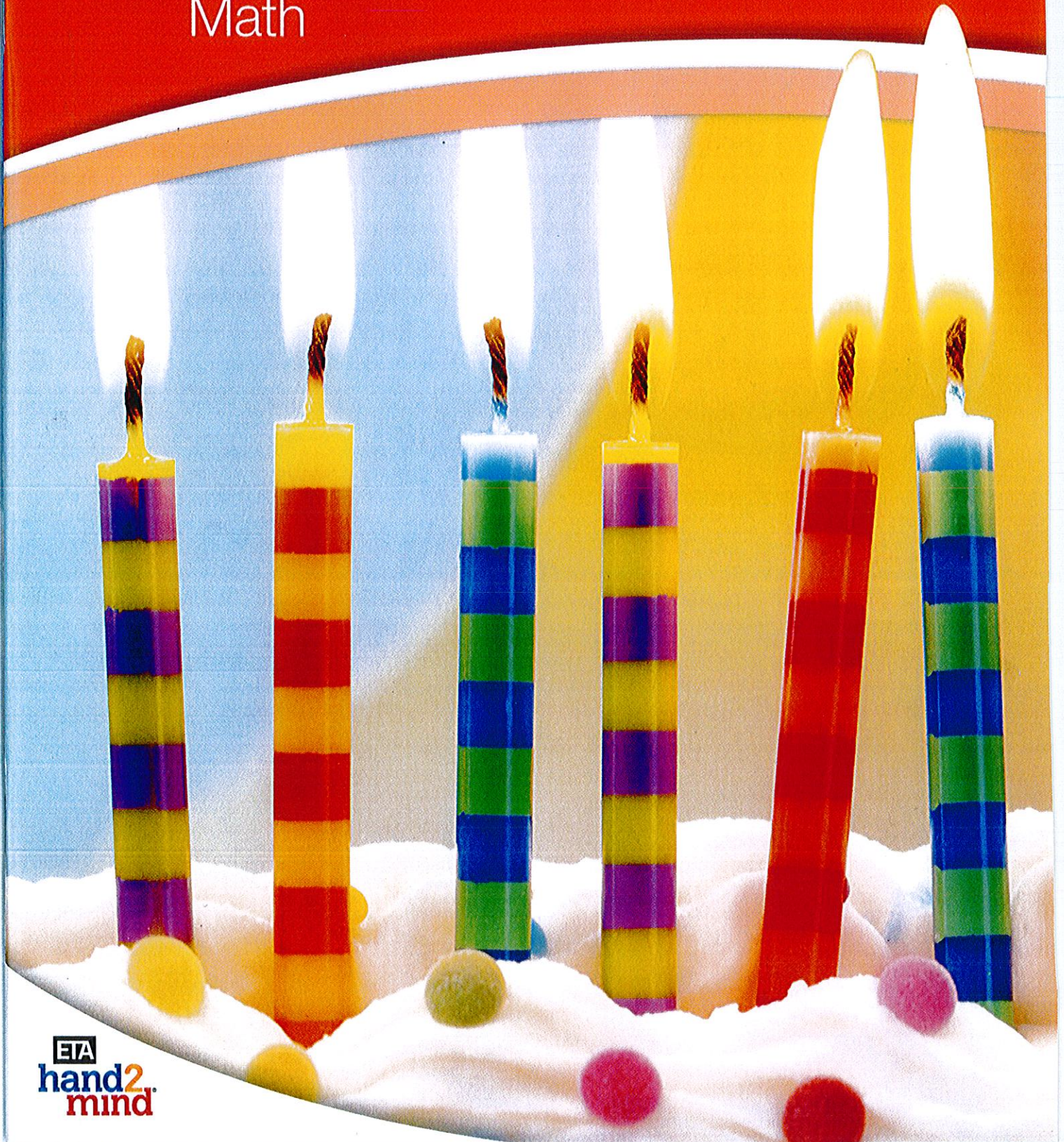


**Versa
Tiles**

Math

Addition and Subtraction
**Strategies and
Equations**



ETA
**hand2
mind**

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VersaTiles® Addition and Subtraction: Strategies and Equations, Grade 1

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EA hand2mind

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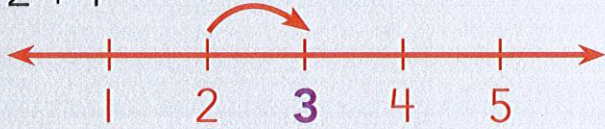
16 17 18 19 20 21 22 9 8 7 6 5 4 3 2 1

Keep on Counting

Example

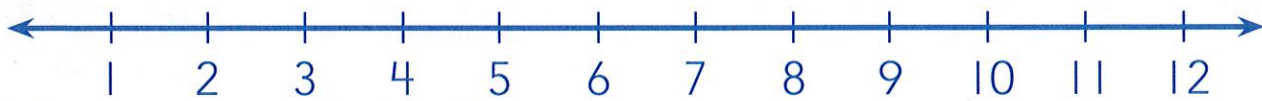
Count on to find the sum.

$$2 + 1$$



So, $2 + 1 = 3$

Use the number line.



Count on to find the sum.

1 $3 + 1$

2 $5 + 0$

3 $9 + 1$

4 $8 + 0$

5 $6 + 1$

6 $2 + 1$

7 $1 + 0$

8 $2 + 0$

9 $5 + 1$

10 11 .
1 more .
 in all.

11 8 .
1 more .
 in all.

12 10 .
1 more .
 in all.

A	B	C	D	E	F
5	3	4	8	6	10
2	11	12	1	9	7
G	H	I	J	K	L

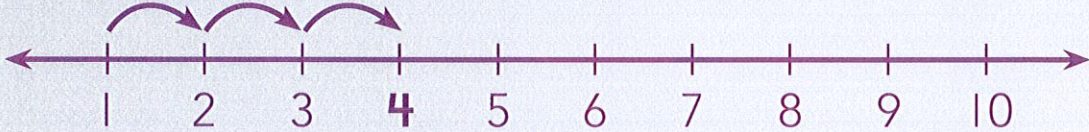
Objective: Find the sum by counting on 0 or 1.



Count On, Count Back

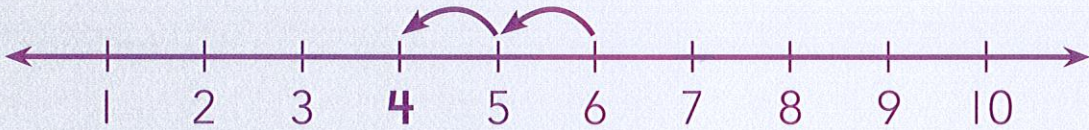
Find the sum or difference.

$1 + 3$



So, $1 + 3 = 4$

$6 - 2$



So, $6 - 2 = 4$

Example

Find the sum or difference.

1 $3 + 2$

2 $12 - 2$

3 $7 - 3$

4 $9 - 2$

5 $3 - 1$

6 $6 + 2$

7 $12 + 1$


8 $11 + 3$

9 $13 - 1$

10 15  .

1 more  .

 in all.

11 14  .

3 less  .

 in all.

12 7  .

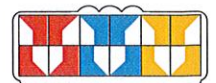
2 more  .

 in all.



A	B	C	D	E	F
12	4	10	8	5	7
2	11	9	14	13	16
G	H	I	J	K	L

Objective: Count on or back to find a sum or difference.

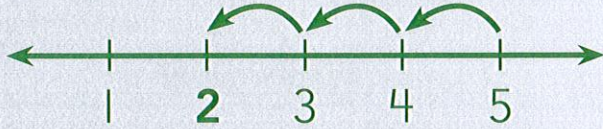


Three Times a Charm

Example

Subtract. Count back or use counters.

$$5 - 3$$



$$\text{So, } 5 - 3 = 2$$

Subtract. Count back or use counters.

1 $10 - 3$

2 $13 - 3$

3 $3 - 3$

4 $8 - 3$




5 $12 - 3$




6 $15 - 3$




7 6 - 3

8 4 - 3

9 11  .
3  fly away.
 are left.

10 14  .
3  go away.
 are left.

11 9  .
3  leave.
 are left.

12 7  .
3  fly away.
 are left.

A	B	C	D	E	F
10	12	11	3	0	8
4	1	5	7	6	9
G	H	I	J	K	L

Objective: Count back to subtract.



Read It!

Example

Find the missing number.

6	
2	4

6 minus 2 equals ■.

Begin with 6. Take away 2. 4 are left.

So, 6 minus 2 equals 4.

Find the missing number.

1

9	
3	6

9 minus 3
equals ■.

2

10	
8	2

10 minus 8
equals ■.

3

4	
1	3

4 minus 1
equals ■.

4

11	
1	10

11 minus 1
equals ■.

5

12	
5	7

12 minus 5
equals ■.

6

5	
4	1

5 minus 4
equals ■.

7

12	
1	11

12 minus 1 equals ■.

8

12	
8	4

12 minus 8 equals ■.

9

10	
1	9

10 minus 1 equals ■.

10

8	
8	0

8 minus 8 equals ■.

11

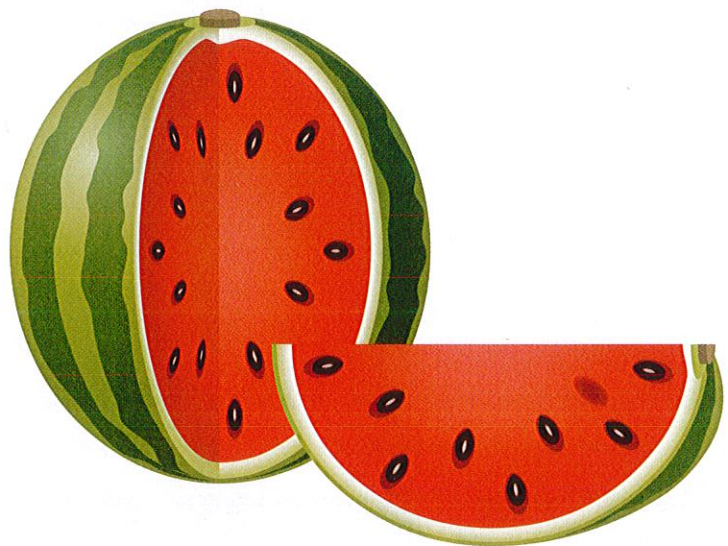
11	
6	5

11 minus 6 equals ■.

12

10	
2	8

10 minus 2 equals ■.



A	B	C	D	E	F
2	1	9	3	6	10
8	4	7	5	11	0
G	H	I	J	K	L

Objective: Use a part-part-whole organizer to subtract.

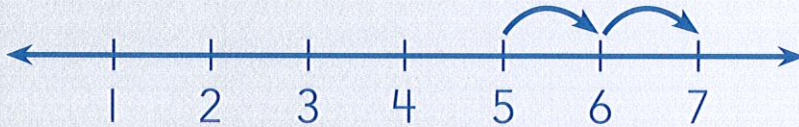


Missing in Action

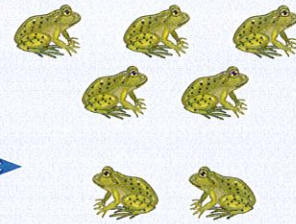
Example

Find the missing number.

$$5 + \blacksquare = 7$$



So, $5 + 2 = 7$.



$$5 + 2 = 7$$

Find the missing number.

1 $2 + \blacksquare = 8$

2 $\blacksquare + 4 = 9$

3 $5 + \blacksquare = 12$

4 $4 + \blacksquare = 4$

5 $\blacksquare + 7 = 16$

6 $7 + \blacksquare = 10$

7 $2 + \blacksquare = 13$

8 $\blacksquare + 5 = 6$

9 $2 + \blacksquare = 12$

10 $5 + \blacksquare = 7$

11 $\blacksquare + 6 = 14$

12 $7 + \blacksquare = 11$

A	B	C	D	E	F
10	9	0	6	1	3
8	7	11	2	5	4
G	H	I	J	K	L

Objective: Find a missing addend in an addition equation.



Seeing Double

Example

Add.

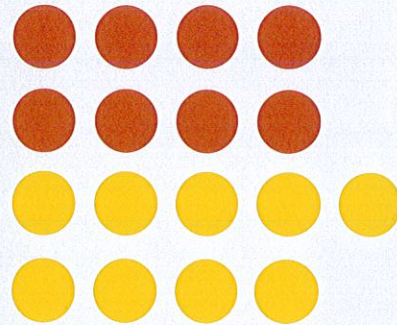
$$8 + 9$$

Think: I know my doubles:

$$8 + 8 = 16,$$

$$\text{So, } 8 + 8 + 1 = 17.$$

$$8 + 9 = 17$$



Add.

1 $5 + 6$

2 $4 + 5$

3 $1 + 2$

4 $4 + 3$

5 $2 + 3$

6 $7 + 8$

7 $9 + 10$

8 $10 + 11$

9 $7 + 6$

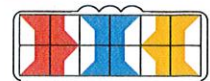
10 $9 + 8$

11 $10 + 12$

12 $6 + 8$

A	B	C	D	E	F
3	22	15	9	19	11
5	13	14	21	7	17
G	H	I	J	K	L

Objective: Use doubles as a strategy for addition.



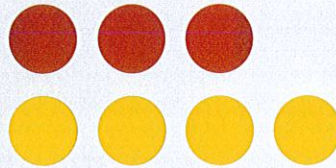
Use Addition to Subtract

Example

Use an addition fact to subtract.

I know $3 + 4 = 7$, so

$$7 - 4 = 3.$$



Use the addition fact to subtract.

1 $5 + 4 = 9$, so
 $9 - 5 = \blacksquare$

2 $0 + 7 = 7$, so
 $7 - 0 = \blacksquare$

3 $3 + 1 = 4$, so
 $4 - 3 = \blacksquare$

4 $5 + 6 = 11$, so
 $11 - 5 = \blacksquare$

5 $5 + 2 = 7$, so
 $7 - 5 = \blacksquare$

6 $3 + 9 = 12$, so
 $12 - 3 = \blacksquare$

7 $9 + 5 = 14$, so
 $14 - 9 = \blacksquare$

8 $8 + 5 = 13$, so
 $13 - 5 = \blacksquare$

9 $10 + 4 = 14$, so
 $14 - 4 = \blacksquare$

10 $11 + 5 = 16$, so
 $16 - 5 = \blacksquare$

11 $12 + 3 = 15$, so
 $15 - 3 = \blacksquare$

12 $5 + 3 = 8$, so
 $8 - 5 = \blacksquare$



A	B	C	D	E	F
2	10	6	4	9	8
1	12	5	11	3	7
G	H	I	J	K	L

Objective: Use related addition facts as a strategy for subtraction.



Read the Signs!

Find the missing number.

1

5	
3	?

$5 - 3 = \blacksquare$

2

12	
3	?

$12 - 3 = \blacksquare$

3

6	
2	?

$6 - 2 = \blacksquare$

4

10	
3	?

$10 - 3 = \blacksquare$

5

7	
7	?

$7 - 7 = \blacksquare$

6

11	
6	?

$11 - 6 = \blacksquare$

Tip

The answer in subtraction is called the **difference**.

7

12	
2	?

$12 - 2 = \blacksquare$

8

7	
6	?

$7 - 6 = \blacksquare$

9

12	
1	?

$12 - 1 = \blacksquare$

10

7	
1	?

$7 - 1 = \blacksquare$

11

11	
8	?

$11 - 8 = \blacksquare$

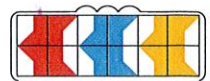
12

12	
4	?

$12 - 4 = \blacksquare$

A	B	C	D	E	F
0	11	8	9	10	2
G	H	I	J	K	L
4	3	5	1	7	6

Objective: Subtract within 20.



Use Doubles to Subtract

Example

Use a doubles fact to find the difference.

I know $12 - 6 = 6$. It is a **doubles fact!**



So, $12 - 5 = 7$



Use a doubles fact to find the difference.

1 $8 - 4 = 4$, so
 $8 - 5 = \blacksquare$

2 $10 - 5 = 5$, so
 $10 - 6 = \blacksquare$

3 $12 - 6 = 6$, so
 $12 - 5 = \blacksquare$

4 $14 - 7 = 7$, so
 $14 - 8 = \blacksquare$

5 $18 - 9 = 9$, so
 $18 - 8 = \blacksquare$

6 $24 - 12 = 12$, so
 $24 - 11 = \blacksquare$

7 $4 - 2 = 2$, so

$4 - 3 = \blacksquare$

8 $22 - 11 = 11$, so

$22 - 10 = \blacksquare$

9 $24 - 12 = 12$, so

$24 - 13 = \blacksquare$

10 $20 - 10 = 10$, so

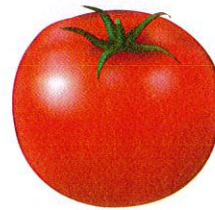
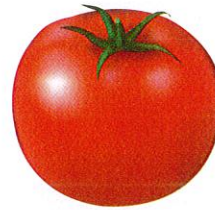
$20 - 11 = \blacksquare$

11 $12 - 6 = 6$, so

$12 - 7 = \blacksquare$

12 $6 - 3 = 3$, so

$6 - 4 = \blacksquare$

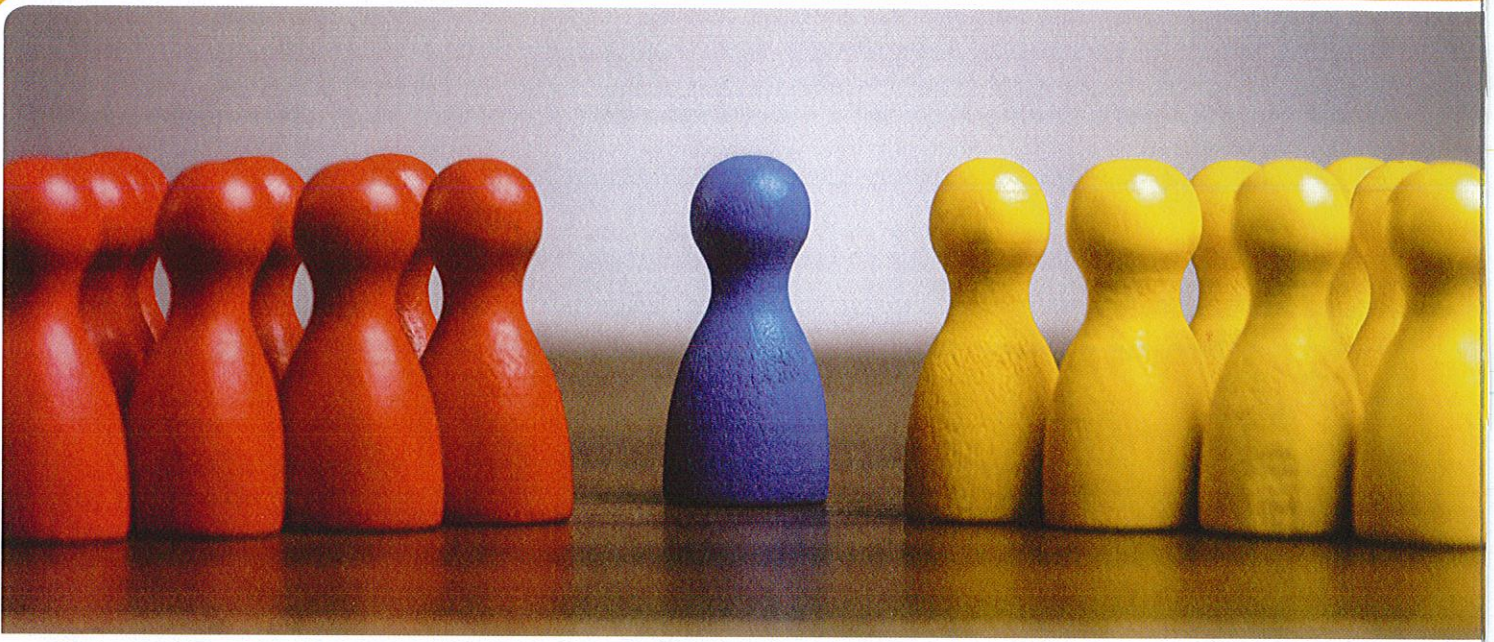


A	B	C	D	E	F
12	2	3	6	5	10
4	13	9	1	11	7
G	H	I	J	K	L

Objective: Use doubles as a strategy for finding subtraction facts.



Facts on Facts



Use the first fact to find the missing difference.

1 $6 - 4 = 2$, so
 $6 - 5 = \blacksquare$

2 $12 - 2 = 10$, so
 $12 - 3 = \blacksquare$

3 $13 - 2 = 11$, so
 $13 - 3 = \blacksquare$

5 $15 - 2 = 13$, so
 $15 - 3 = \blacksquare$

4 $12 - 5 = 7$, so
 $12 - 6 = \blacksquare$

6 $15 - 7 = 8$, so
 $15 - 8 = \blacksquare$

Tip

One more is subtracted.

7 $14 - 2 = 12$, so
 $14 - 3 = \blacksquare$

8 $9 - 3 = 6$, so
 $9 - 4 = \blacksquare$

9 $7 - 3 = 4$, so
 $7 - 4 = \blacksquare$

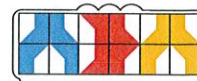
10 $10 - 5 = 5$, so
 $10 - 6 = \blacksquare$

11 $13 - 4 = 9$, so
 $13 - 5 = \blacksquare$

12 $9 - 6 = 3$, so
 $9 - 7 = \blacksquare$

A	B	C	D	E	F
5	2	10	8	4	11
7	9	12	3	6	1
G	H	I	J	K	L

Objective: Use a given subtraction fact to find a near difference.



Think Ten

Example

Add.

$$8 + 5 = \blacksquare$$

Think: $8 + 2 + 3$



Then: $10 + 3 = 13$

Subtract.

$$13 - 5 = \blacksquare$$

Think: $13 - 3 - 2$



Then: $10 - 2 = 8$

Add.

1 $8 + 4 = \blacksquare$

2 $9 + 5 = \blacksquare$

3 $7 + 6 = \blacksquare$

4 $6 + 9 = \blacksquare$

5 $5 + 6 = \blacksquare$

6 $9 + 8 = \blacksquare$

Subtract.

7 $15 - 7 = \blacksquare$

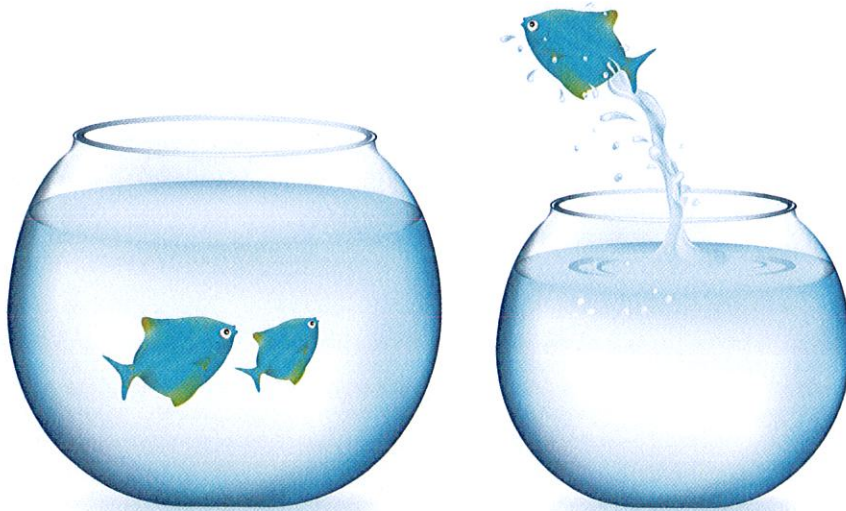
8 $13 - 8 = \blacksquare$

9 $11 - 9 = \blacksquare$

10 $14 - 8 = \blacksquare$

11 $12 - 9 = \blacksquare$

12 $13 - 4 = \blacksquare$

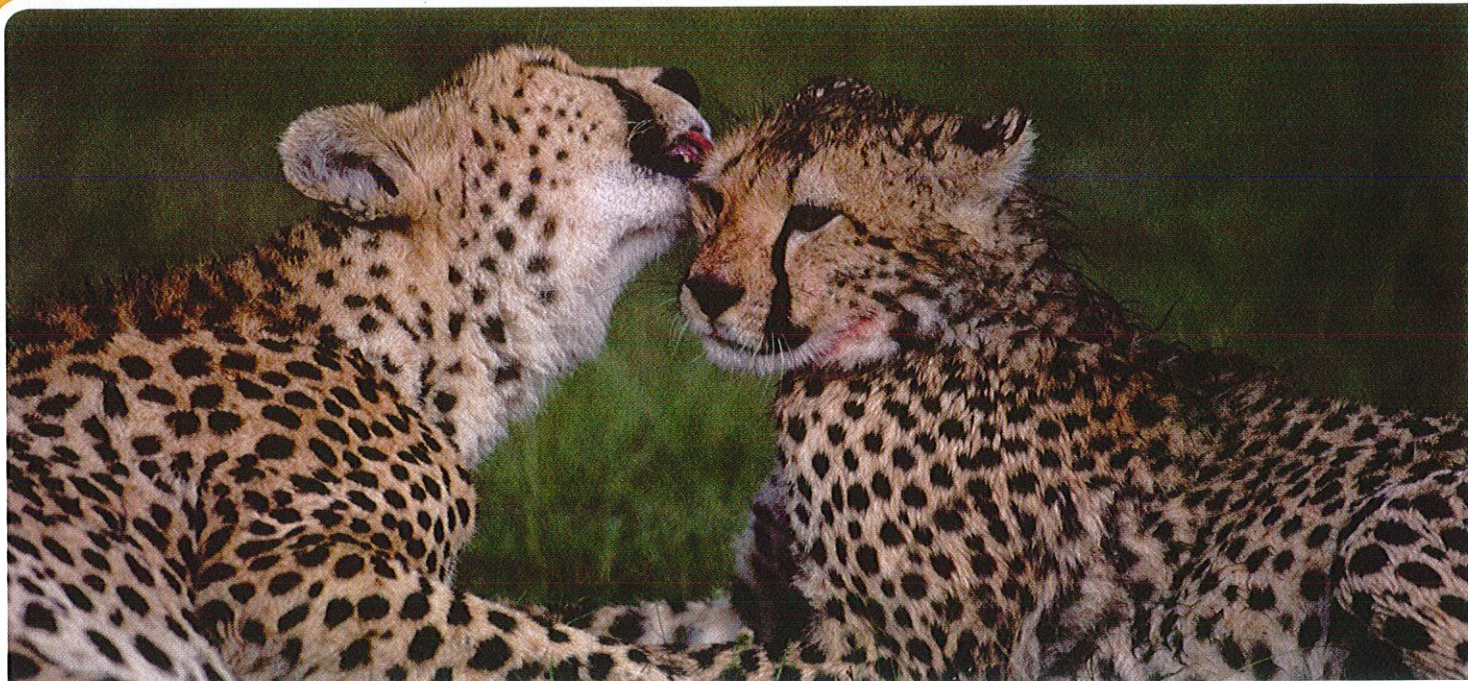


A	B	C	D	E	F
11	3	6	8	9	5
2	13	12	15	14	17
G	H	I	J	K	L

Objective: Use making a ten as a strategy to add or subtract.



More Than Doubles!



Use doubles to find the sum or difference.

1 $1 + 1 = 2$, so
 $1 + 2 = \blacksquare$

2 $10 - 5 = 5$, so
 $\blacksquare - 6 = 5$

3 $2 + 2 = 4$, so
 $2 + 3 = \blacksquare$

4 $8 + 8 = 16$, so
 $8 + 9 = \blacksquare$

5 $6 + 6 = 12$, so
 $6 + 7 = \blacksquare$

6 $3 + 3 = 6$, so
 $3 + 4 = \blacksquare$

7 $4 + 4 = 8$, so
 $4 + 5 = \blacksquare$

8 $1 + 1 = 2$, so
 $1 + \blacksquare = 3$

9 $9 + 9 = 18$, so
 $9 + 10 = \blacksquare$

10 $7 + 7 = 14$, so
 $7 + 8 = \blacksquare$

11 $18 - 9 = 9$, so
 $17 - 9 = \blacksquare$

12 $5 + 5 = 10$, so
 $10 - 6 = \blacksquare$

A	B	C	D	E	F
17	3	13	19	7	11
9	15	5	8	4	2
G	H	I	J	K	L

Objective: Use doubles to find a sum or difference.



Make It 10!

Count the stars. Complete the number sentence.

1



$$3 + \blacksquare = 10$$

2



$$8 + \blacksquare = 10$$

3



$$6 + \blacksquare = 10$$

4



$$7 + \blacksquare = 10$$

5



$$4 + \blacksquare = 10$$

6



$$2 + \blacksquare = 10$$

7



1 + ■ = 10

8



5 + ■ = 10

9

10 + ■ = 10

10



9 + ■ = 10

Answer yes or no.

11



makes 10?

12



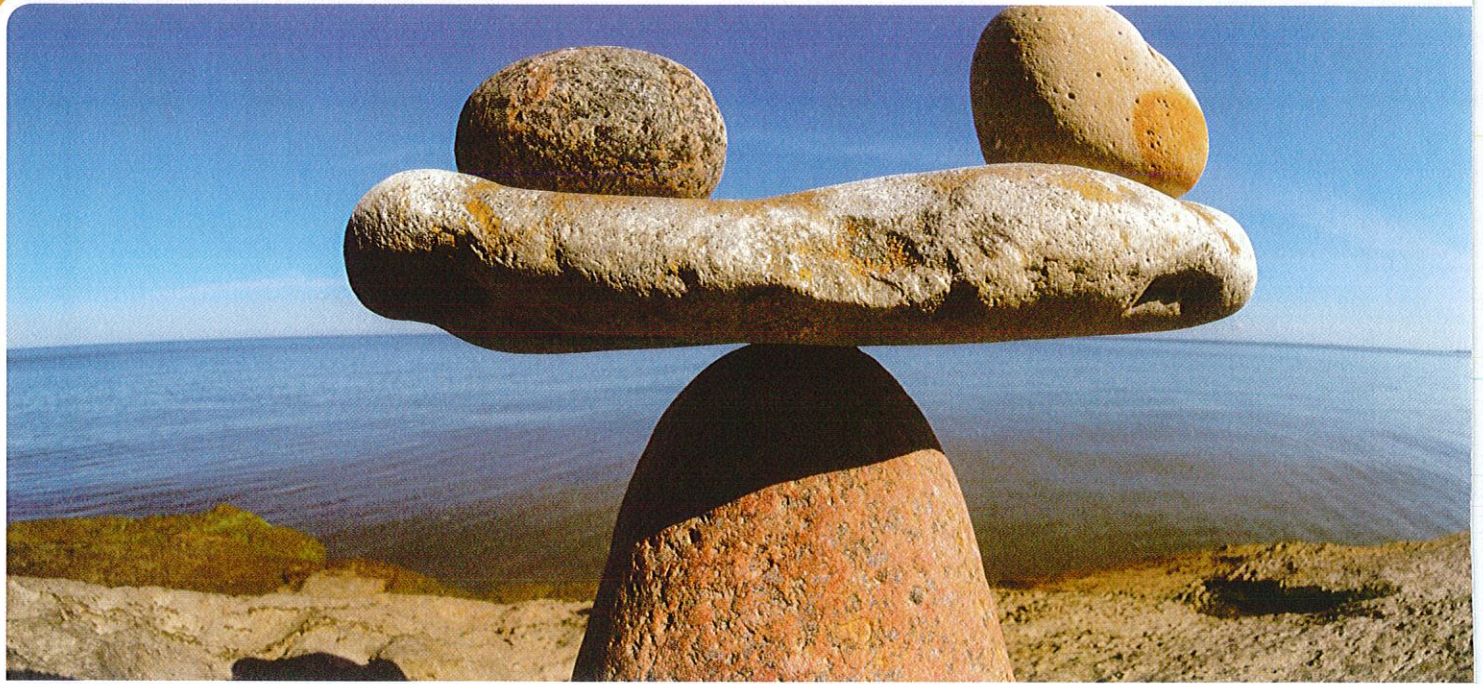
makes 10 in all?

A	B	C	D	E	F
3	7	4	0	8	2
G	H	I	J	K	L
9	1	6	no	yes	5

Objective: Determine the number that must be added to make 10.



True or False?



Which equation is true?

1 $16 = 8 + 8$ or $9 + 9 = 16$

2 $5 + 6 = 11$ or $6 + 7 = 14$

3 $15 = 8 + 7$ or $14 = 5 + 8$

4 $5 = 1 + 3$ or $4 + 5 = 9$

5 $8 + 4 = 11$ or $5 = 2 + 3$

6 $3 + 3 = 7$ or $8 + 9 = 17$

Which equation is false?

7 $8 + 9 = 17$ or $9 + 9 = 16$

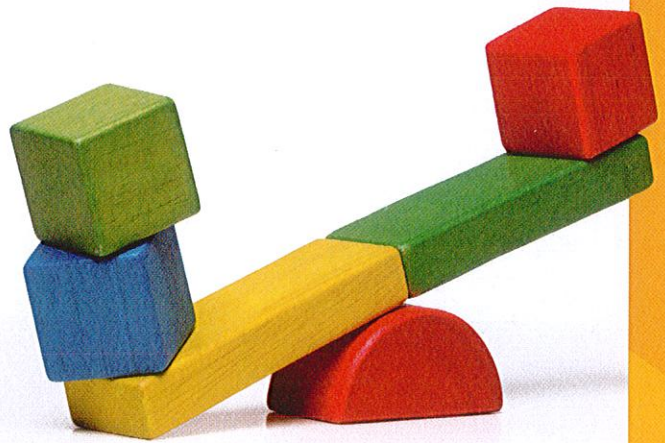
8 $3 + 3 = 7$ or $5 + 6 = 11$

9 $15 = 8 + 7$ or $14 = 5 + 8$

10 $16 = 8 + 8$ or $6 + 7 = 14$

11 $8 + 4 = 11$ or $4 + 5 = 9$

12 $5 = 1 + 3$ or $5 = 2 + 3$



A	B	C	D	E	F
$8 + 9 = 17$	$5 + 6 = 11$	$9 + 9 = 16$	$6 + 7 = 14$	$15 = 8 + 7$	$14 = 5 + 8$
$5 = 1 + 3$	$3 + 3 = 7$	$16 = 8 + 8$	$4 + 5 = 9$	$5 = 2 + 3$	$8 + 4 = 11$
G	H	I	J	K	L

Objective: Determine if an equation is true or false.



It's True

Which equation is true?

1 $8 + 2 = 6 + 4$ or $4 + 5 = 8 + 3$

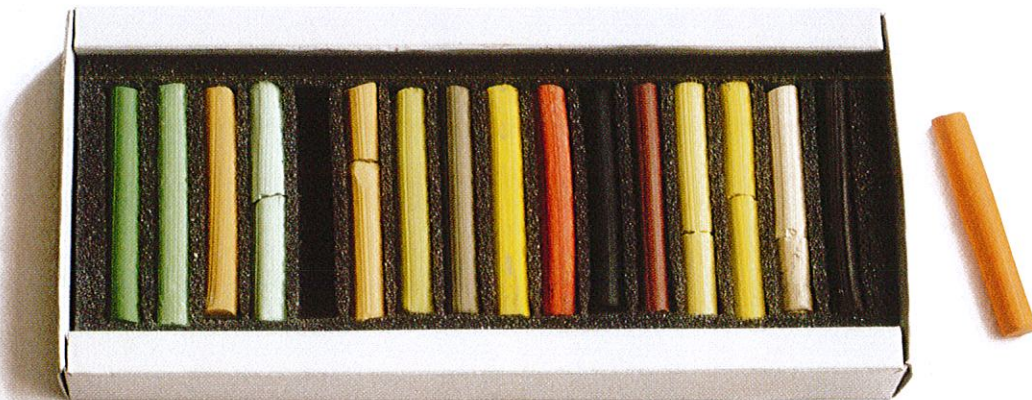
2 $2 + 7 = 4 + 3$ or $6 + 2 = 4 + 4$

3 $10 + 3 = 9 + 4$ or $8 + 4 = 7 + 3$

4 $12 + 6 = 9 + 9$ or $10 + 10 = 8 + 9$

5 $6 + 6 = 5 + 5$ or $6 + 5 = 5 + 6$

6 $7 + 7 = 6 + 8$ or $3 + 5 = 4 + 3$



Which equation is false?

7 $2 + 7 = 4 + 3$ or $6 + 2 = 4 + 4$

8 $7 + 7 = 6 + 8$ or $4 + 5 = 8 + 3$

9 $8 + 2 = 6 + 4$ or $10 + 10 = 8 + 9$

10 $12 + 6 = 9 + 9$ or $3 + 5 = 4 + 3$

11 $10 + 3 = 9 + 4$ or $8 + 4 = 7 + 3$

12 $6 + 6 = 5 + 5$ or $6 + 5 = 5 + 6$



A	B	C	D	E	F
$6 + 5 =$ $5 + 6$	$10 + 10 =$ $8 + 9$	$3 + 5 =$ $4 + 3$	$2 + 7 =$ $4 + 3$	$6 + 6 =$ $5 + 5$	$6 + 2 =$ $4 + 4$
$10 + 3 =$ $9 + 4$	$8 + 4 =$ $7 + 3$	$8 + 2 =$ $6 + 4$	$12 + 6 =$ $9 + 9$	$7 + 7 =$ $6 + 8$	$4 + 5 =$ $8 + 3$
G	H	I	J	K	L

Objective: Determine if an equation is true or false.



Take It Away

Find the missing number.

$$6 - 2 = \blacksquare.$$

Begin with 6. Take away 2.

4 are left.

6	
2	4

So, $6 - 2 = 4$.

Example

Find the missing number.

1

9	
3	6

$$9 - 3 = \blacksquare$$

2

10	
8	2

$$10 - 8 = \blacksquare$$

3

4	
1	3

$$4 - 1 = \blacksquare$$

4

11	
1	10

$$11 - 1 = \blacksquare$$

5

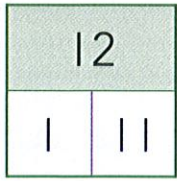
12	
5	7

$$12 - 5 = \blacksquare$$

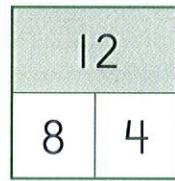
6

5	
4	1

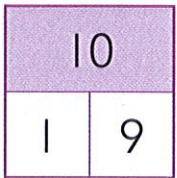
$$5 - 4 = \blacksquare$$

7

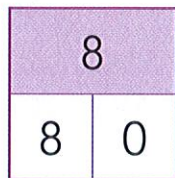
$12 - 1 = \blacksquare$

8

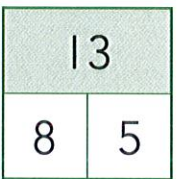
$12 - 8 = \blacksquare$

9

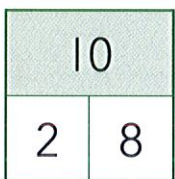
$10 - 1 = \blacksquare$

10

$8 - 8 = \blacksquare$

11

$13 - 8 = \blacksquare$

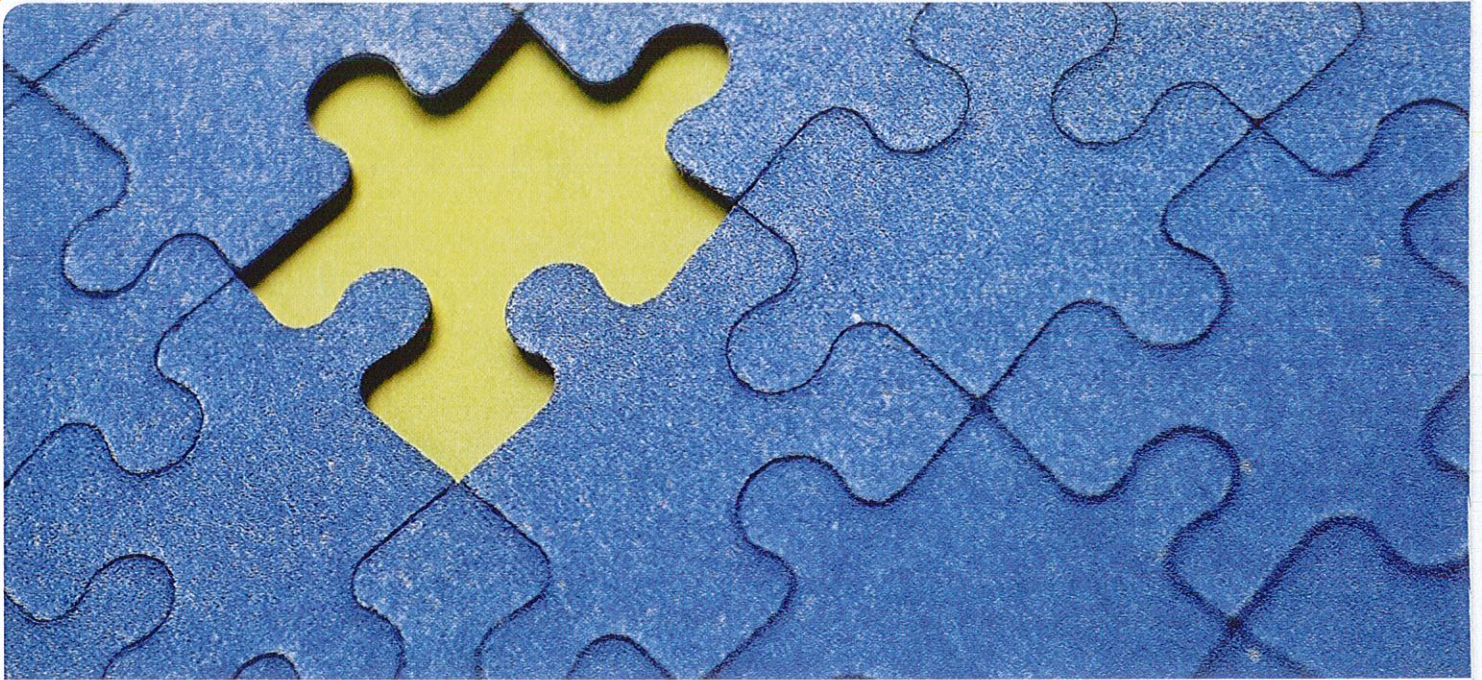
12

$10 - 2 = \blacksquare$

A	B	C	D	E	F
2	1	9	3	6	10
8	4	7	5	11	0
G	H	I	J	K	L

Objective: Use a part-part-whole organizer to subtract.

It's Unknown



Find the missing number.

1

8	
7	?

 $8 - 7 = \blacksquare$

2

9	
4	?

 $9 - 4 = \blacksquare$

3

11	
2	?

 $11 - 2 = \blacksquare$

4

10	
7	?

 $10 - 7 = \blacksquare$

5

12	
?	5

 $12 - \blacksquare = 5$

6

4	
?	4

 $4 - \blacksquare = 4$

7

12	
1	?

$12 - 1 = \blacksquare$

8

12	
2	?

$12 - 2 = \blacksquare$

9

8	
?	6

$8 - \blacksquare = 6$

10

11	
?	3

$11 - \blacksquare = 3$

11

11	
?	7

$11 - \blacksquare = 7$

12

12	
?	6

$12 - \blacksquare = 6$

A	B	C	D	E	F
0	5	3	1	9	2
6	10	11	8	7	4
G	H	I	J	K	L

Objective: Determine the value of an unknown in a subtraction sentence.

Looking for Numbers

Find the missing number.

1 $9 + \blacksquare = 16$

2 $\blacksquare + 8 = 12$

3 $2 + \blacksquare = 8$

4 $\blacksquare + 9 = 10$

5 $\blacksquare + 8 = 17$

6 $7 + \blacksquare = 9$

7 $\blacksquare + 1 = 11$

8 $9 + \blacksquare = 9$

9 $\blacksquare + 9 = 14$

10 $1 + \blacksquare = 13$

11 $\blacksquare + 9 = 12$

12 $7 + \blacksquare = 15$

Tip

It helps to remember your addition facts!



A	B	C	D	E	F
9	5	10	12	2	0
6	3	7	1	8	4
G	H	I	J	K	L

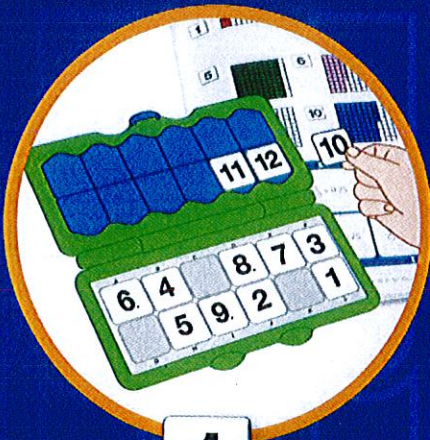
Objective: Find an unknown addend in an addition sentence.



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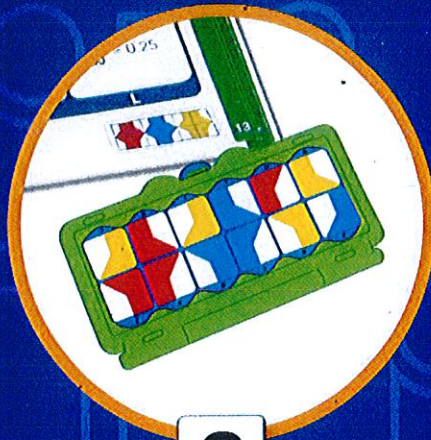
Grade

1



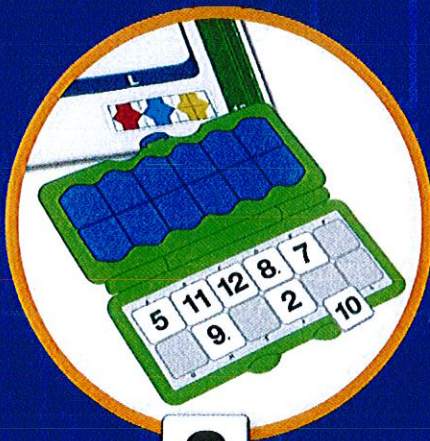
1

Answer questions



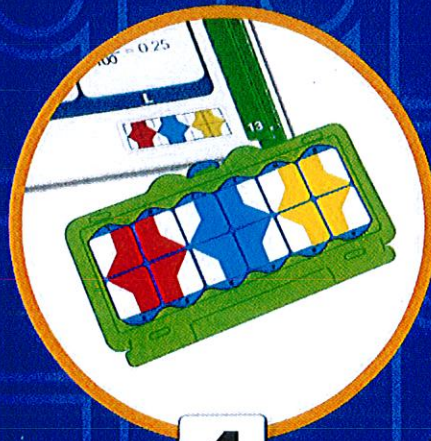
2

Flip and check



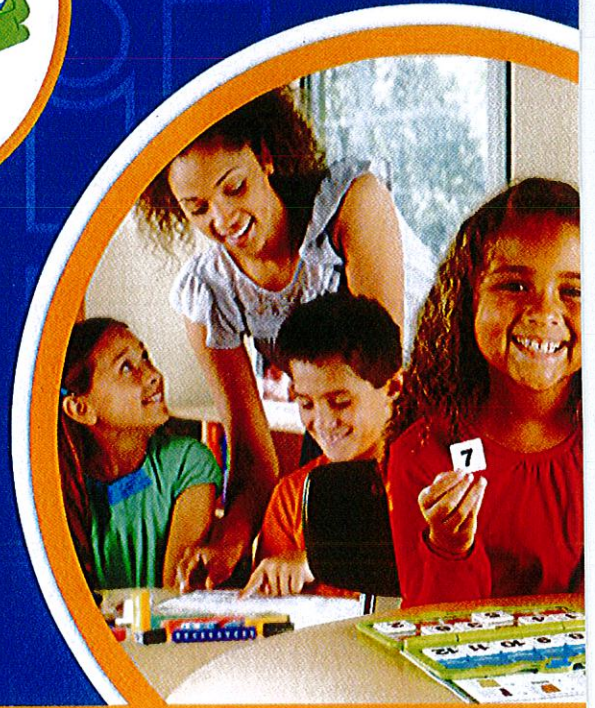
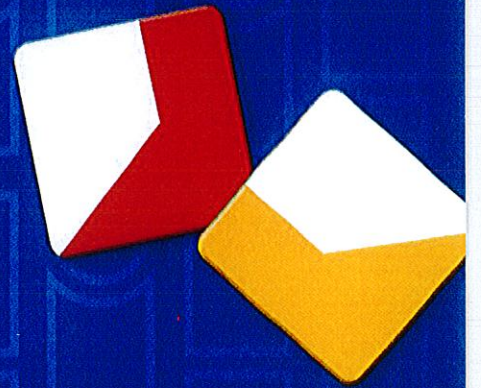
3

Open and self-correct



4

Match




Did you know...

- There are over 2,300 different answer patterns.
- You can write your own VersaTiles activities.
- You can practice at home.

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