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Introduction to Subtraction - Year 1

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SUBTRACTION MEANS TAKE AWAY



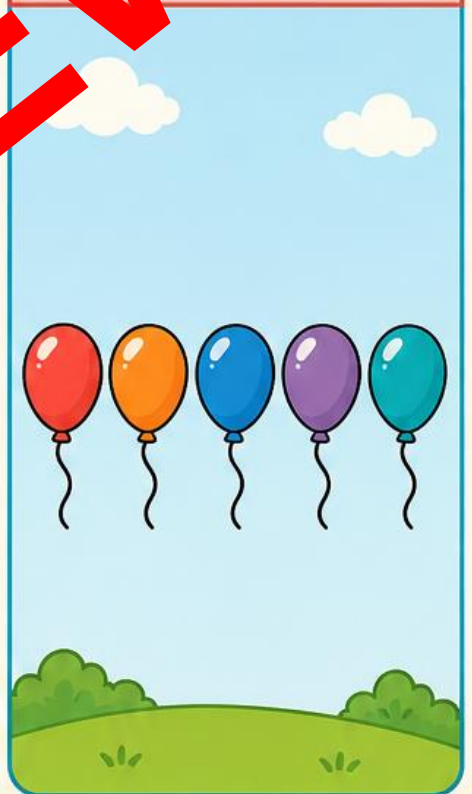
1 START WITH 8



2 TAKE AWAY 3



3 REMAIN



$$8 - 3 = 5$$

Start • Take away • Count what remains



MY SUBTRACTION STRATEGY CARD



1



Act it out

$$10 - 4 = 6$$

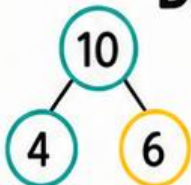
2



Draw and cross out

$$10 - 4 = 6$$

3



Use the parts

$$10 - 4 = 6$$

4



Count back

$$10 - 4 = 6$$

5

$$6 + 4 = 10$$



Check with addition

$$10 - 4 = 6$$



MY SUBTRACTION STRATEGY CARD



1



Act it out

$$10 - 4 = 6$$

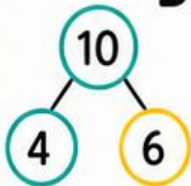
2



Draw and cross out

$$10 - 4 = 6$$

3



Use the parts

$$10 - 4 = 6$$

4



Count back

$$10 - 4 = 6$$

5

$$6 + 4 = 10$$



Check with addition

$$10 - 4 = 6$$

RACE BACK TO ZERO

HOW TO PLAY

You need: 1 counter each
and a 1–6 die.

WHAT TO DO

Start on 20. Roll.
Move back that many spaces.
Say the subtraction fact.
First to land exactly on 0 wins.

EXAMPLE

$$20 - 4 = 16$$

PREVIEW





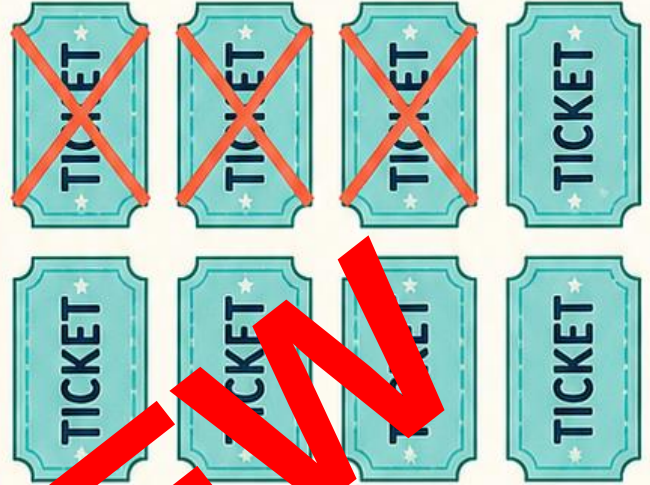
SUBTRACTION STORY MATCH



8 tickets.

3 are used.

How many remain?

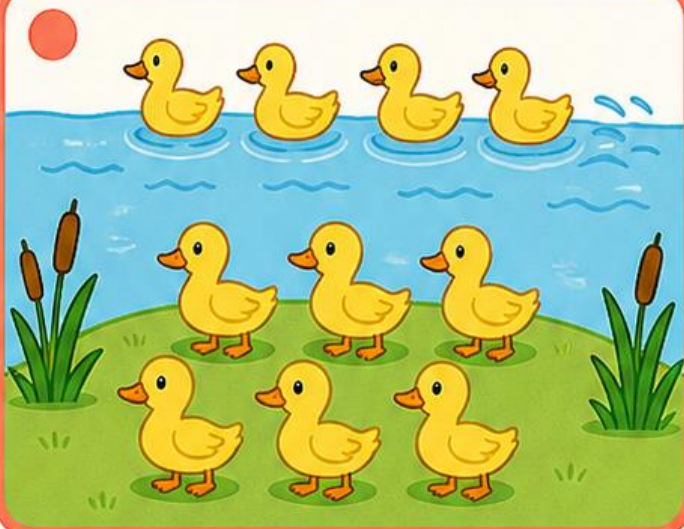


$$8 - 3 = 5$$

10 ducks.

4 swim away.

How many remain?

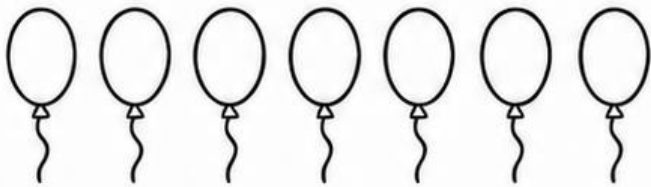


$$10 - 4 = 6$$

CROSS OUT AND SUBTRACT

Name: _____ Date: _____

Cross out the amount taken away. Write how many remain.



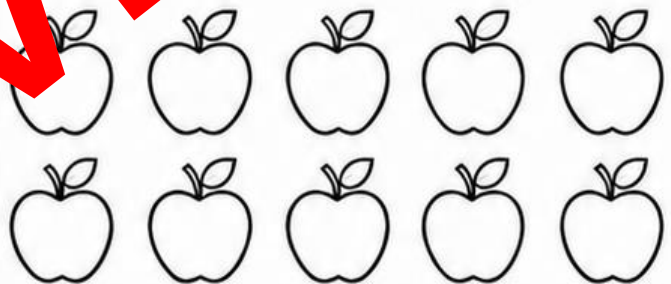
$$7 - 2 = \square$$



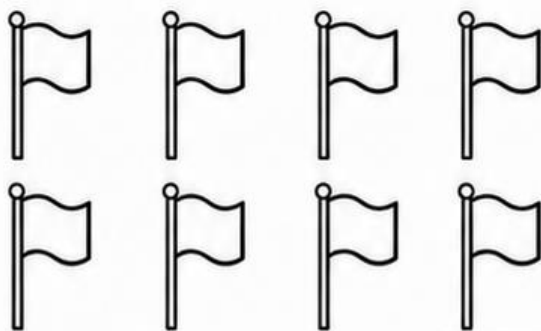
$$9 - 4 = \square$$



$$6 - 3 = \square$$



$$10 - 5 = \square$$



$$8 - 1 = \square$$



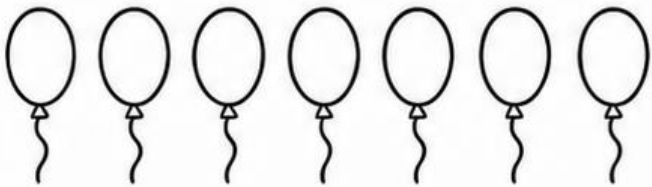
$$10 - 3 = \square$$

CROSS OUT AND SUBTRACT

ANSWERS

Name: _____ Date: _____

Cross out the amount taken away. Write how many remain.



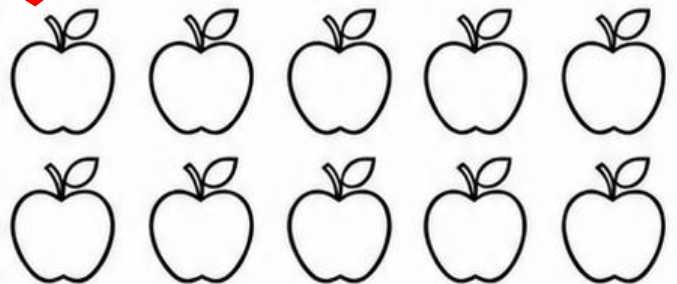
$$7 - 2 = \boxed{5}$$



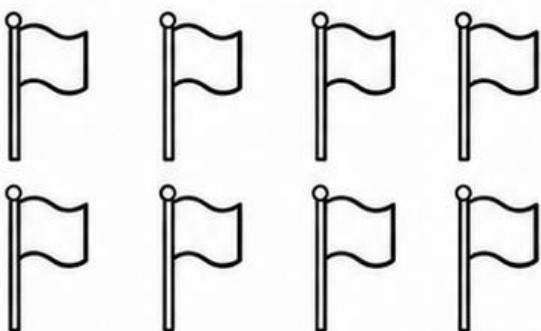
$$9 - 4 = \boxed{5}$$



$$6 - 3 = \boxed{3}$$



$$10 - 5 = \boxed{5}$$



$$8 - 1 = \boxed{7}$$



$$10 - 3 = \boxed{7}$$

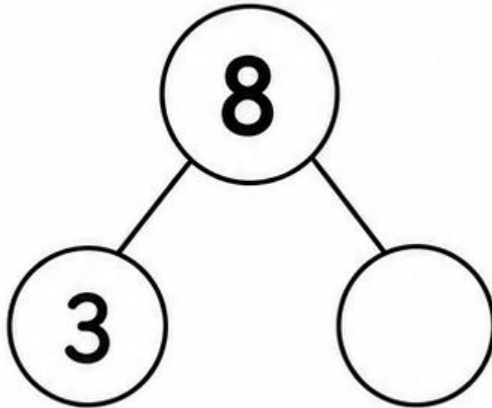
SHOW THE PARTS

Name: _____

Date: _____

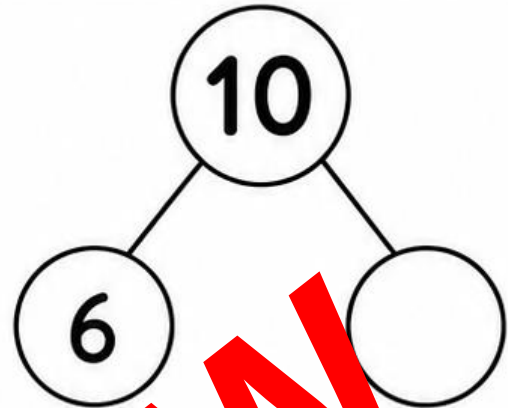
Complete each part-part-whole model and subtraction sentence.

1.



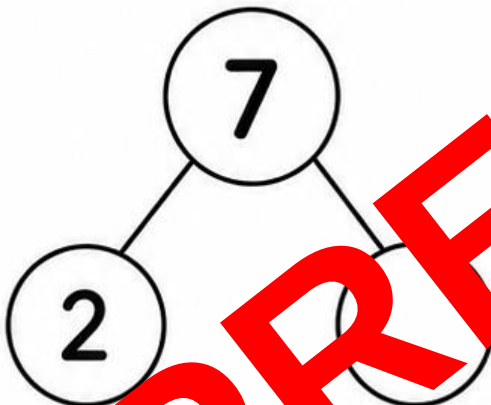
$$8 - 3 = \square$$

2.



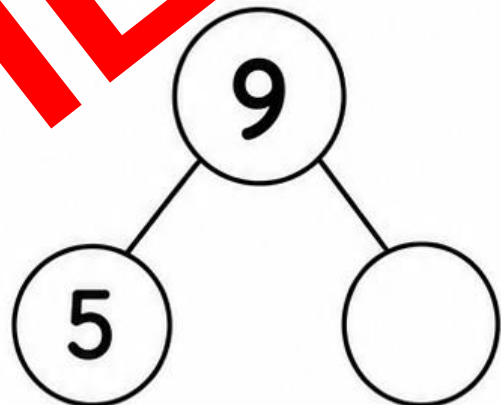
$$10 - 6 = \square$$

3.



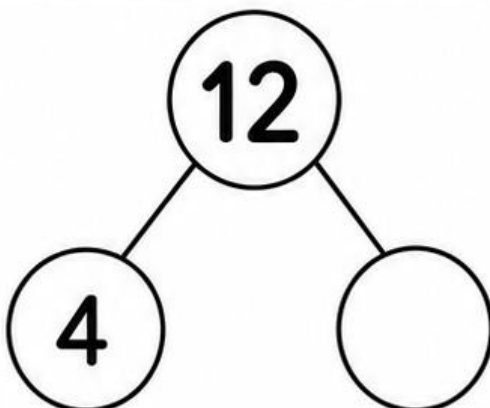
$$7 - 2 = \square$$

4.



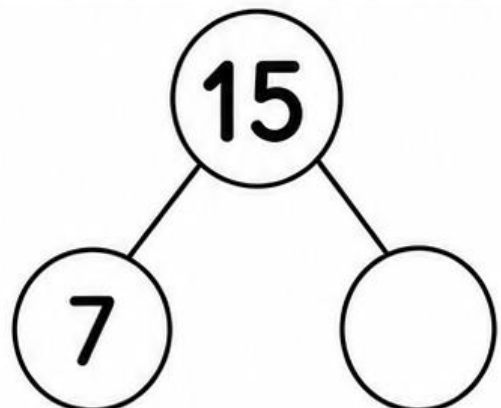
$$9 - 5 = \square$$

5.



$$12 - 4 = \square$$

6.



$$15 - 7 = \square$$

SHOW THE PARTS

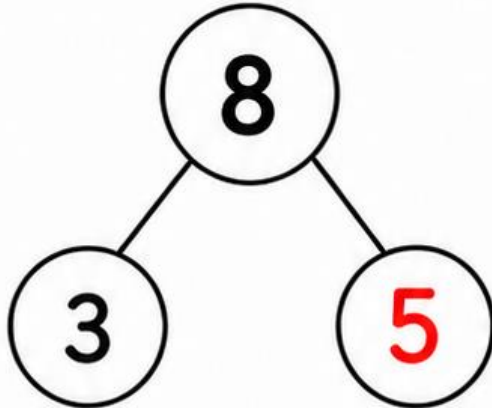
ANSWERS

Name: _____

Date: _____

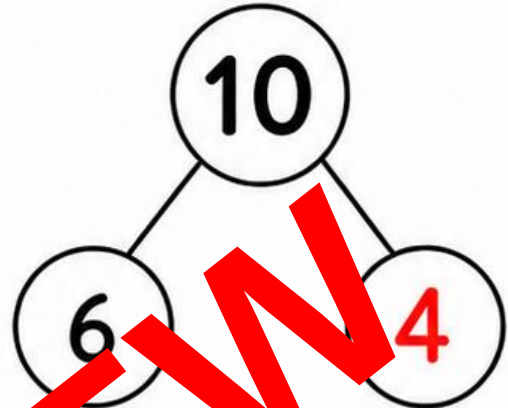
Complete each part-part-whole model and subtraction sentence.

1.



$$8 - 3 = \boxed{5}$$

2.



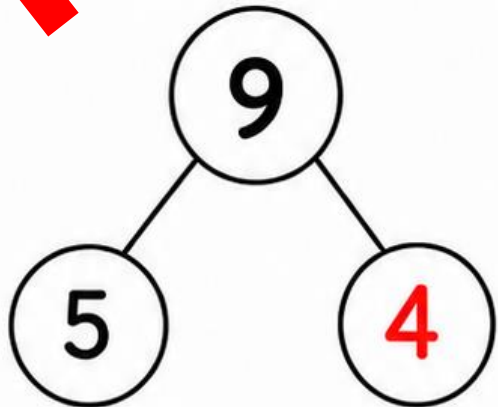
$$10 - 6 = \boxed{4}$$

3.



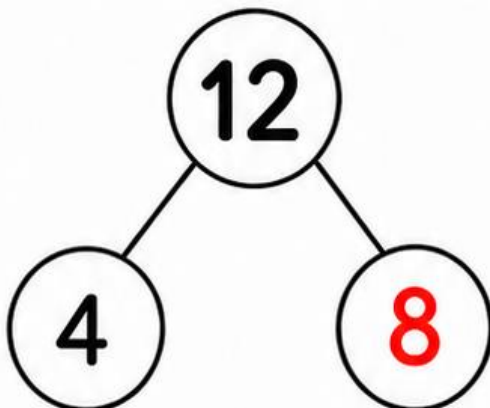
$$7 - 2 = \boxed{5}$$

4.



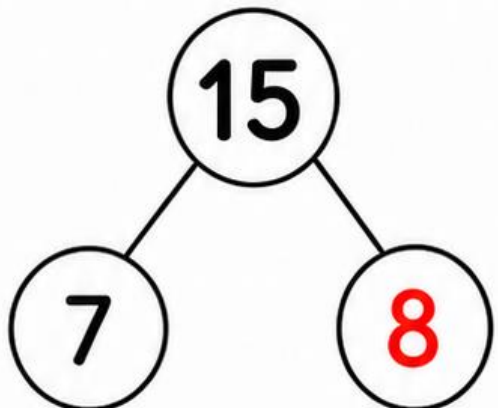
$$9 - 5 = \boxed{4}$$

5.



$$12 - 4 = \boxed{8}$$

6.



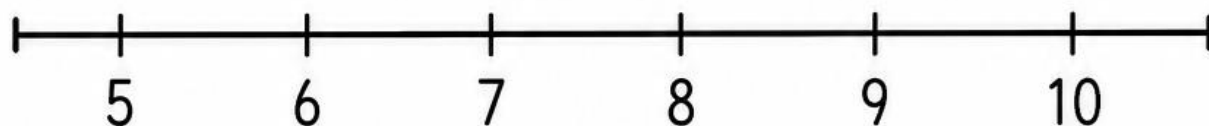
$$15 - 7 = \boxed{8}$$

COUNT BACK TO FIND THE DIFFERENCE

Name: _____ Date: _____

Start at the first number. Draw the jumps back. Write the answer.

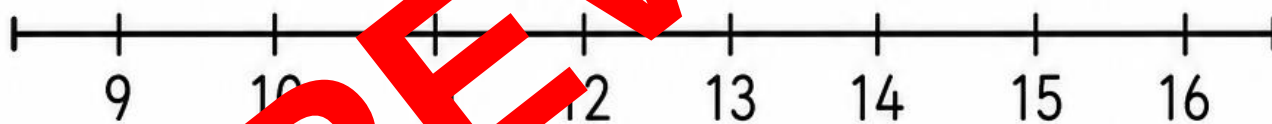
① $9 - 3 = \square$



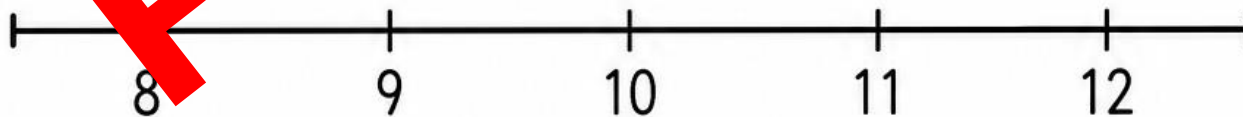
② $12 - 4 = \square$



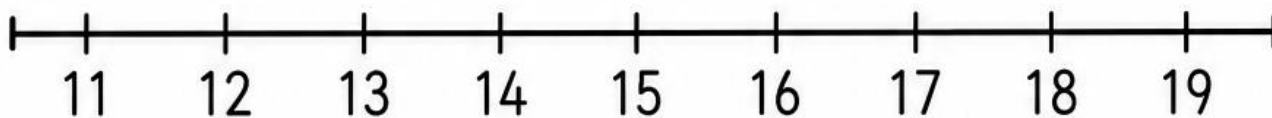
③ $15 - 5 = \square$



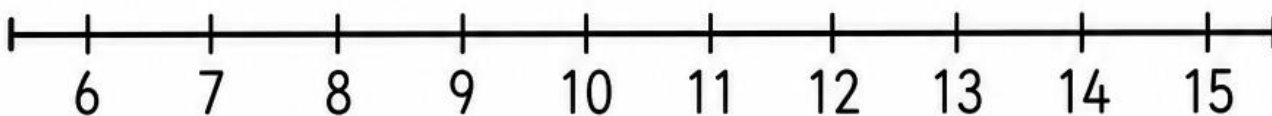
④ $11 - 2 = \square$



⑤ $18 - 6 = \square$



⑥ $14 - 7 = \square$



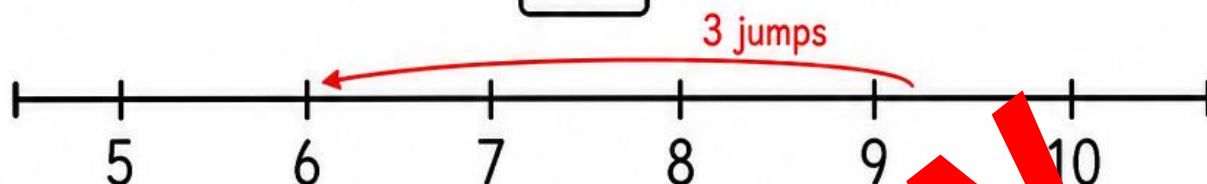
COUNT BACK TO FIND THE DIFFERENCE

ANSWERS

Name: _____ Date: _____

Start at the first number. Draw the jumps back. Write the answer.

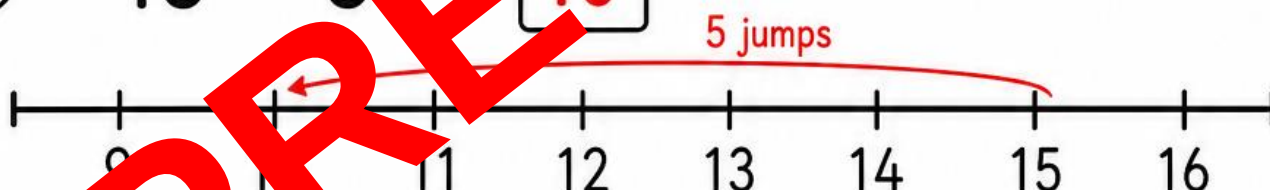
① $9 - 3 = \boxed{6}$



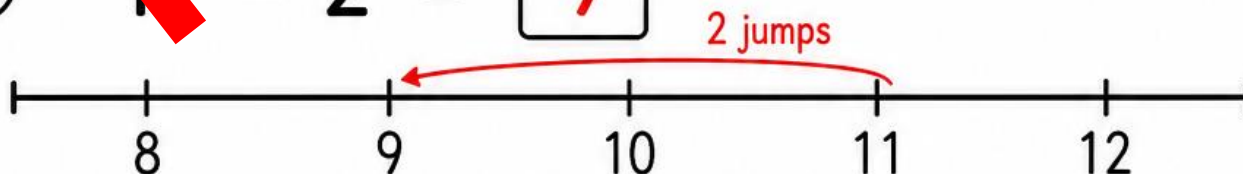
② $12 - 4 = \boxed{8}$



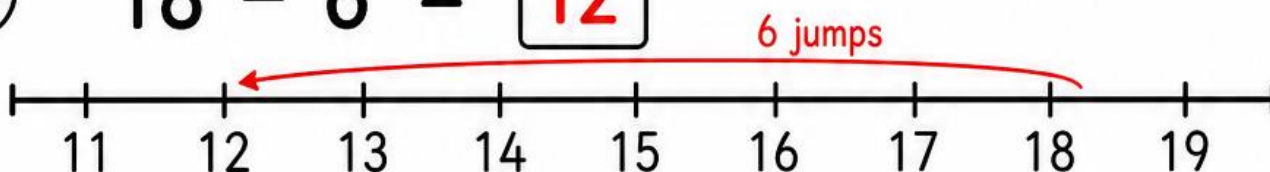
③ $15 - 5 = \boxed{10}$



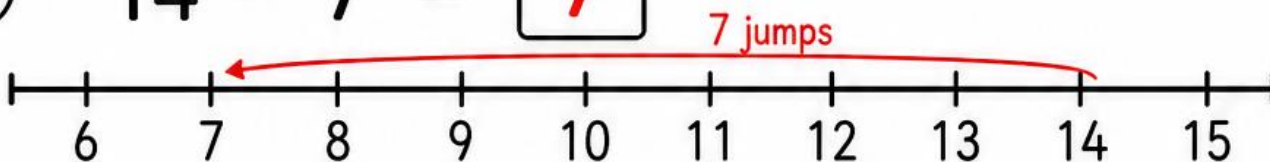
④ $11 - 2 = \boxed{9}$



⑤ $18 - 6 = \boxed{12}$



⑥ $14 - 7 = \boxed{7}$

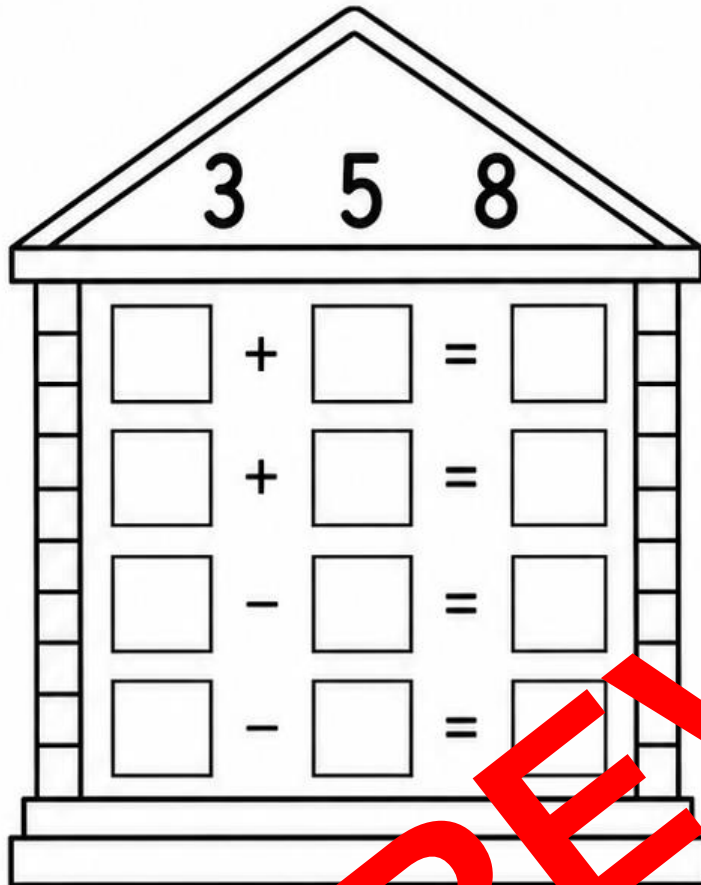


FACT FAMILY WINDOWS

Name: _____

Date: _____

Use the three numbers to write two addition and two subtraction facts.



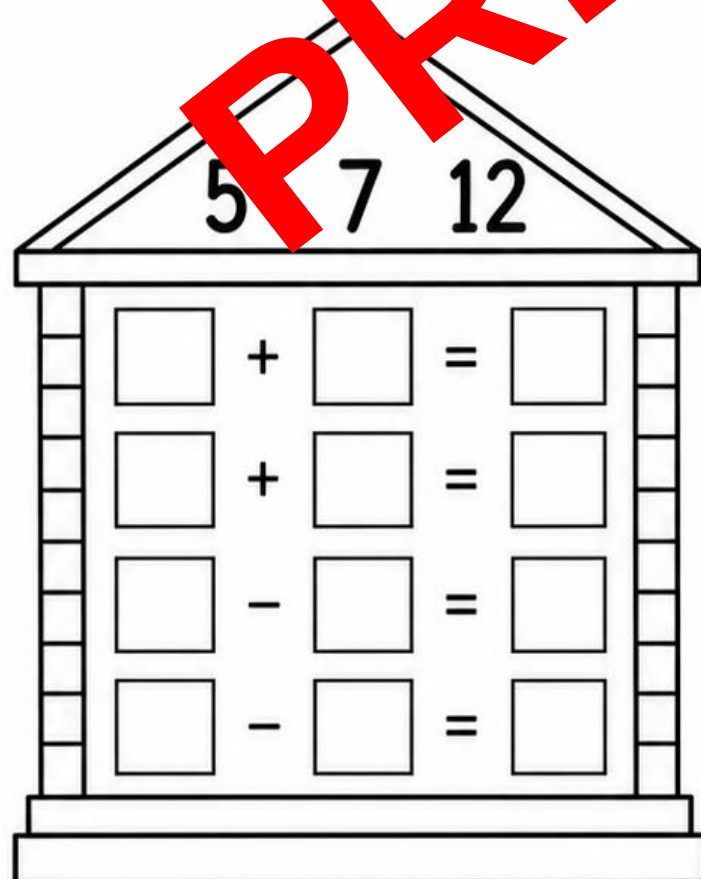
A house-shaped window with the numbers 3, 5, and 8 in the triangular roof. The main body of the house contains four rows of math problems, each with a square box for a number, a plus or minus sign, another square box, an equals sign, and a final square box for the answer.

3 5 8				
	+		=	
	+		=	
	-		=	
	-		=	



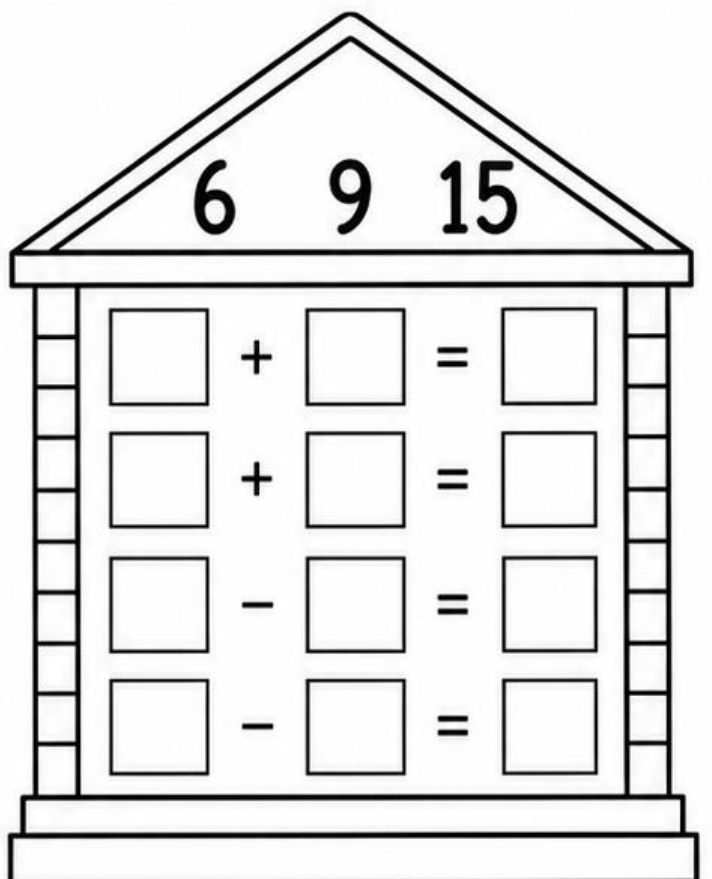
A house-shaped window with the numbers 4, 6, and 10 in the triangular roof. The main body of the house contains four rows of math problems, each with a square box for a number, a plus or minus sign, another square box, an equals sign, and a final square box for the answer.

4 6 10				
	+		=	
	+		=	
	-		=	
	-		=	



A house-shaped window with the numbers 5, 7, and 12 in the triangular roof. The main body of the house contains four rows of math problems, each with a square box for a number, a plus or minus sign, another square box, an equals sign, and a final square box for the answer.

5 7 12				
	+		=	
	+		=	
	-		=	
	-		=	



A house-shaped window with the numbers 6, 9, and 15 in the triangular roof. The main body of the house contains four rows of math problems, each with a square box for a number, a plus or minus sign, another square box, an equals sign, and a final square box for the answer.

6 9 15				
	+		=	
	+		=	
	-		=	
	-		=	

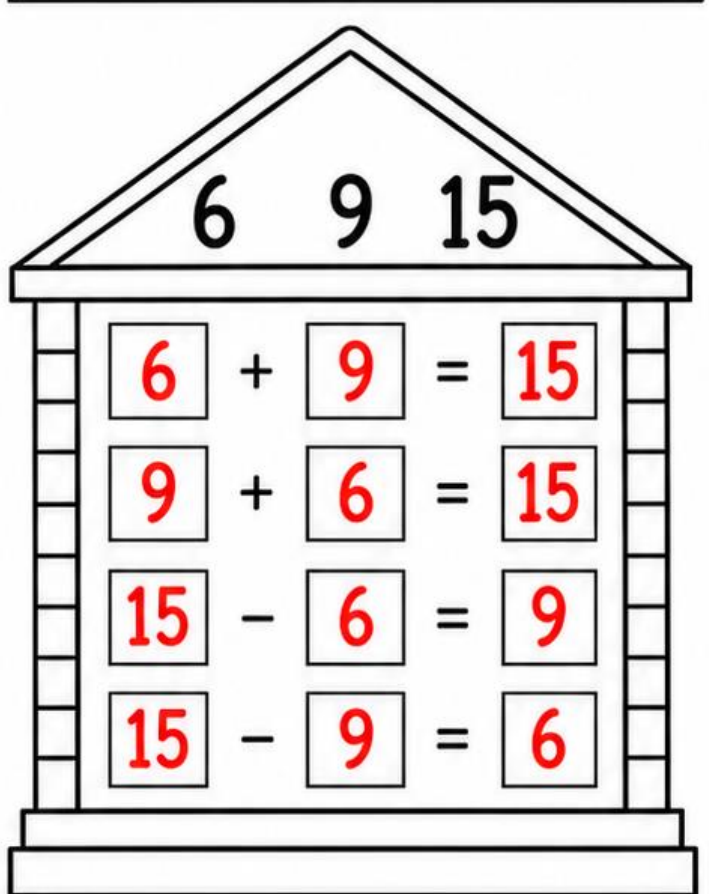
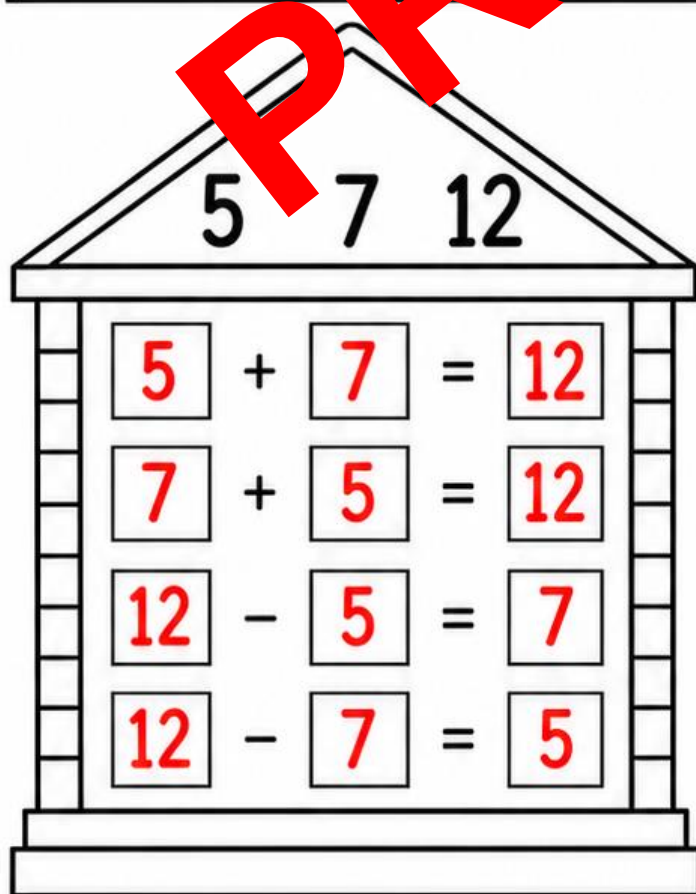
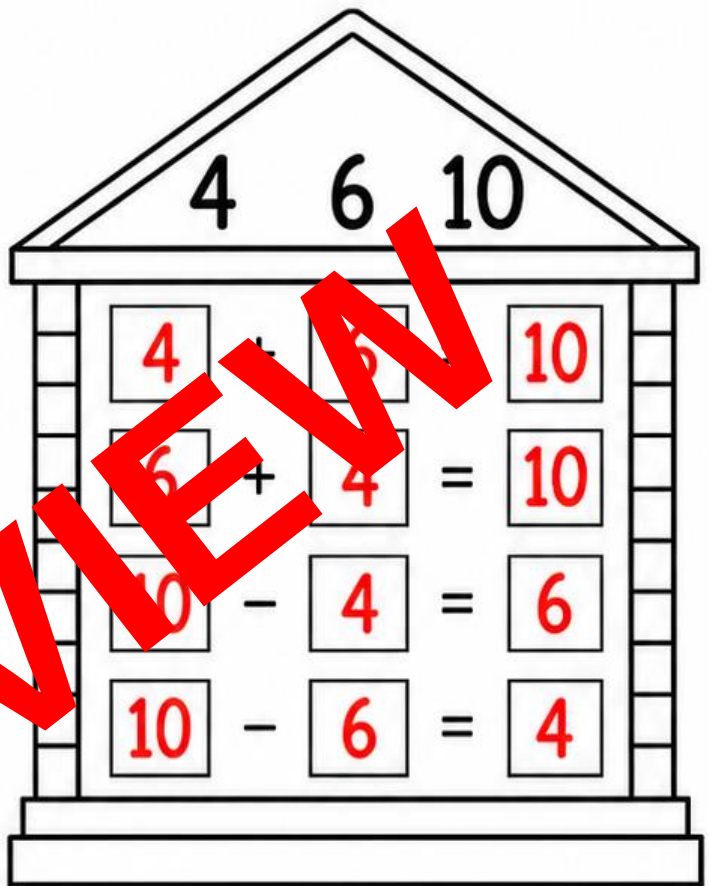
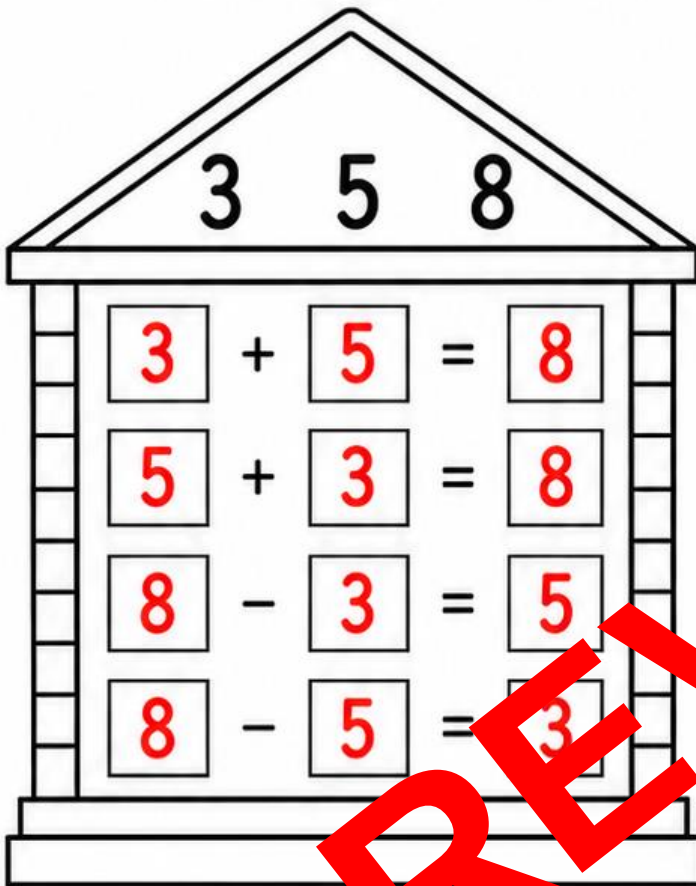
FACT FAMILY WINDOWS

ANSWERS

Name: _____

Date: _____

Use the three numbers to write two addition and two subtraction facts.



SCHOOL FAIR SUBTRACTION STORIES

Name: _____

Date: _____

Draw or cross out to show each story. Write a number sentence and answer.

- 1.** Mia has 9 tickets. She uses 4.
How many tickets remain?

Number sentence: _____

Answer: _____

- 2.** There are 12 cupcakes.
5 are sold. How many remain?

Number sentence: _____

Answer: _____

- 3.** Sam has \$10. He spends \$3.
How much money remains?

Number sentence: _____

Answer: _____

- 4.** There are 15 beanbags.
6 are packed away. How many remain?

Number sentence: _____

Answer: _____

SCHOOL FAIR SUBTRACTION STORIES

ANSWERS

Name: _____

Date: _____

Draw or cross out to show each story. Write a number sentence and answer.

- 1.** Mia has 9 tickets. She uses 4.
How many tickets remain?

total 9	
taken away 4	remain 5

Number sentence: $9 - 4 = 5$

Answer: 5 tickets remain.

- 2.** There are 12 cupcakes.
5 are sold. How many remain?

total 12	
taken away 5	remain 7

Number sentence: $12 - 5 = 7$

Answer: 7 cupcakes remain.

- 3.** Sam has \$10. He spends \$3.
How much remains?

total \$10	
spent \$3	remain \$7

Number sentence: $10 - 3 = 7$

Answer: \$7 remains.

- 4.** There are 15 beanbags.
6 are packed away. How many remain?

total 15	
packed away 6	remain 9

Number sentence: $15 - 6 = 9$

Answer: 9 beanbags remain.

MISSING PART DETECTIVES

Name: _____

Date: _____

Find the missing number. You may draw, count back or use addition.

$$8 - \square = 3$$

My strategy: _____

$$10 - \square = 6$$

My strategy: _____

$$12 - \square = 7$$

My strategy: _____

$$15 - \square = 9$$

My strategy: _____

$$\square - 4 = 5$$

My strategy: _____

$$\square - 6 = 7$$

My strategy: _____

$$14 - \square = 8$$

My strategy: _____

$$\square - 5 = 11$$

My strategy: _____

MISSING PART DETECTIVES

ANSWERS

Name: _____

Date: _____

Find the missing number. You may draw, count back or use addition.

$$8 - \boxed{5} = 3$$

My strategy: $3 + 5 = 8$

$$10 - \boxed{4} = 6$$

My strategy: $6 + 4 = 10$

$$12 - \boxed{5} = 7$$

My strategy: $7 + 5 = 12$

$$15 - \boxed{6} = 9$$

My strategy: $9 + 6 = 15$

$$\boxed{9} - 4 = 5$$

My strategy: $5 + 4 = 9$

$$\boxed{13} - 6 = 7$$

My strategy: $7 + 6 = 13$

$$14 - \boxed{6} = 8$$

My strategy: $8 + 6 = 14$

$$\boxed{16} - 5 = 11$$

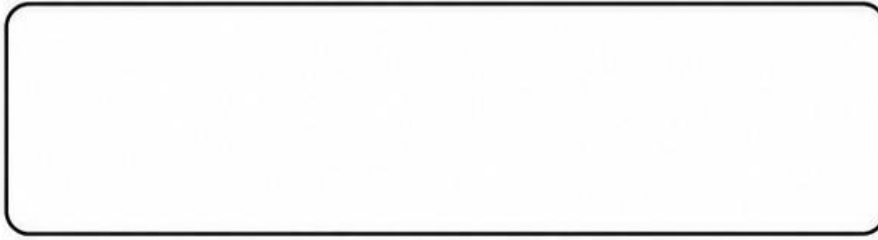
My strategy: $11 + 5 = 16$

SUBTRACTION AT THE SCHOOL FAIR

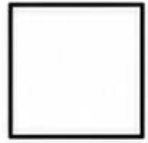
Name: _____

Date: _____

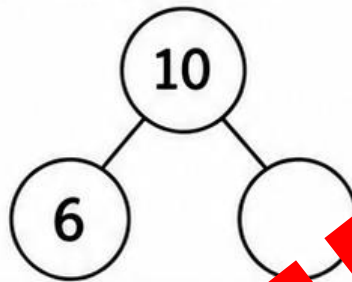
1. Draw and solve $8 - 3$.



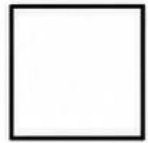
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2. Use a part-part-whole model for $10 - 6$.



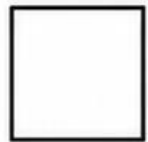
=



3. Use the number line to solve $14 - 6$.



=



4. There are 12 pizzas. 4 are sold. How many remain?



Number sentence: _____

How many remain? _____

5. You have \$10 and spend \$2. How much remains?



Number sentence: _____

How much remains? _____

6. Explain how addition can check $9 - 4 = 5$.

SUBTRACTION AT THE SCHOOL FAIR

ANSWERS

Name: _____

Date: _____

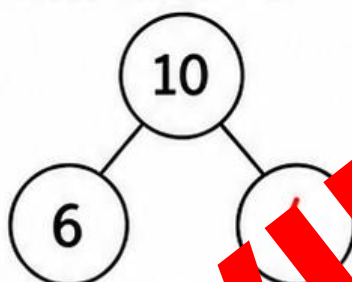
1. Draw and solve $8 - 3$.



=

5

2. Use a part-part-whole model for $10 - 6$.



=

4

3. Use the number line to solve $14 - 5$.



=

9

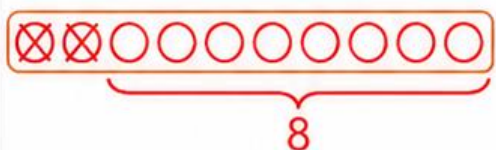
4. There are 12 prizes. 4 were won. How many remain?



Number sentence: $12 - 4 = 8$

How many remain? 8 prizes remain.

5. You have \$10 and spend \$2. How much remains?



Number sentence: $10 - 2 = 8$

How much remains? \$8 remains.

6. Explain how addition can check $9 - 4 = 5$.

$5 + 4 = 9$, so $9 - 4 = 5$.

INTRODUCTION TO SUBTRACTION RUBRIC –



Student: _____ Date: _____

Criteria	1 Beginning	2 Developing	3 Achieving	4 Confident	5 Exceeding
Represents subtraction	Needs support to represent subtraction.	Shows part of representing subtraction with support.	Usually represents subtraction with prompts.	Represents subtraction independently and accurately.	Represents subtraction accurately and flexibly and explains reasoning.
Calculates within 20	Needs support to subtract within 20.	Shows part of subtracting within 20 with support.	Usually subtracts within 20 with prompts.	Subtracts within 20 independently and accurately.	Subtracts within 20 accurately and flexibly and explains reasoning.
Solves practical problems	Needs support to solve subtraction problems.	Shows part of solving subtraction problems with support.	Usually solves subtraction problems with prompts.	Solves subtraction problems independently and accurately.	Solves subtraction problems accurately and flexibly and explains reasoning.
Explains and checks	Needs support to explain or check answers.	Shows part of explaining or checking answers with support.	Usually explains or checks answers with prompts.	Explains and checks answers independently and accurately.	Explains and checks answers accurately and flexibly and explains reasoning.

Teacher feedback:

○○○ – ○ = ○○

Introduction to Subtraction

Year 1 Mathematics



Our Learning Goals

Explain subtraction as taking away, use a strategy to subtract within 20, and show work using pictures, models and number sentences.

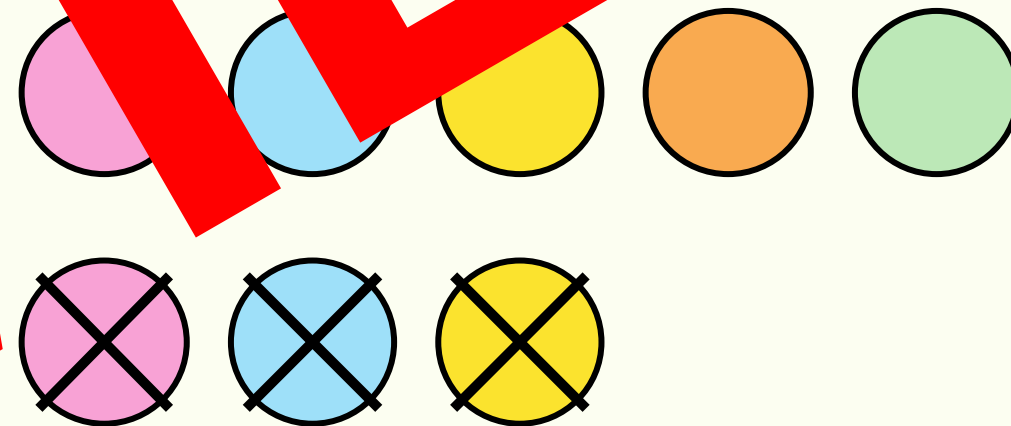


Subtraction Means Take Away

Start with a group.

Take some away.

Count how many are left.



$$8 - 3 = 5$$

$$8 - 3 = 5$$



Read a Subtraction Number Sentence

8 is the starting amount.

The minus sign means take away.

3 is the amount taken away.

5 is the difference.

$$\boxed{8} \boxed{-} \boxed{3} \boxed{=} \boxed{5}$$

start take away removed

difference

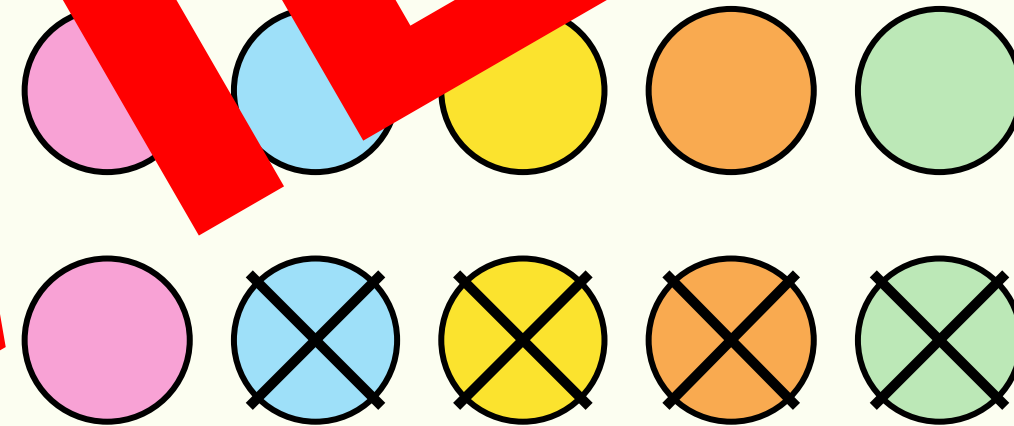


Strategy 1: Act It Out

Build 10 counters.

Move 4 away.

Count the 6 that remain.



$$10 - 4 = 6$$

$$10 - 4 = \underline{\quad}$$



Strategy 2: Draw and Cross Out

Draw 9 stars.

Cross out 2.

Count the 7 stars left.

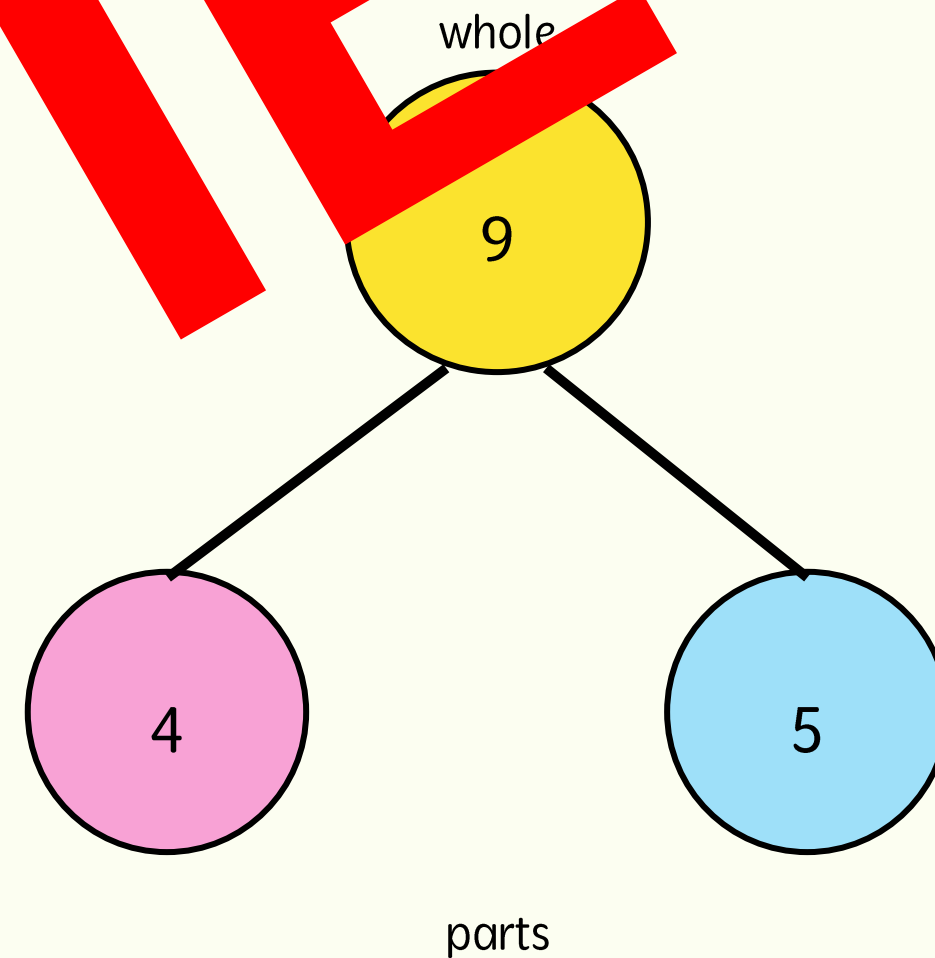


Strategy 3: Use the Parts

Whole: 9

Parts: 4 and 5

If 9 is the whole and 4 is taken
away, 5 remains.



Strategy 4: Count Back

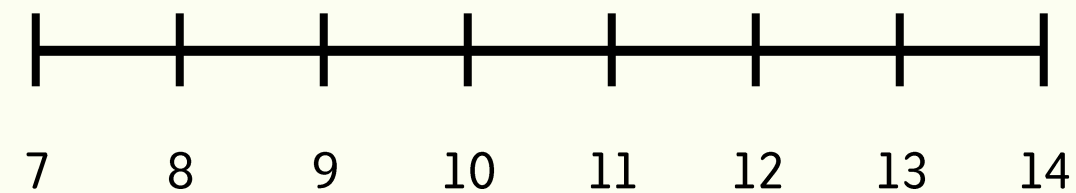
For $13 - 5$, start at 13 and make

five backward jumps:

12, 11, 10, 9,

13 → 12 → 11 → 10 → 9 → 8

five jumps back

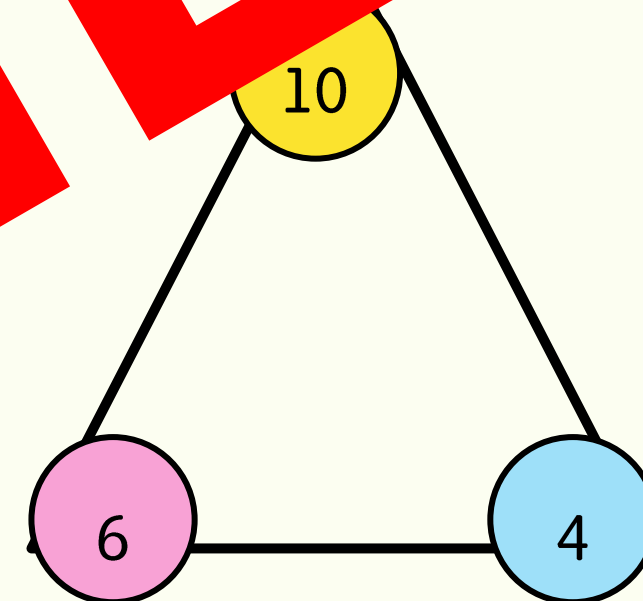


Addition Can Check Subtraction

If $6 + 4 = 10$, then:

$$10 - 4 = 6$$

$$10 - 6 = 4$$



$$6 + 4 = 10$$



Choose a Strategy

Objects

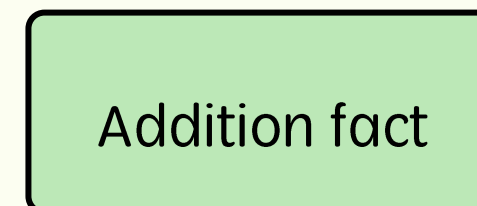
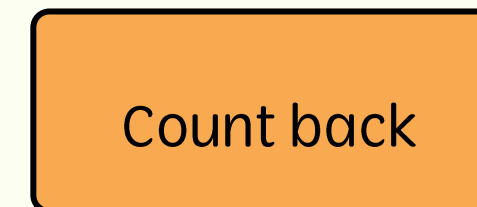
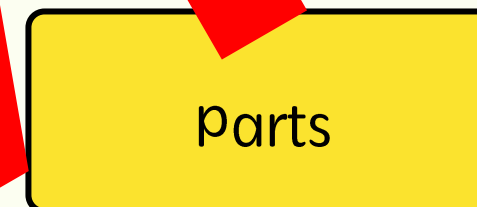
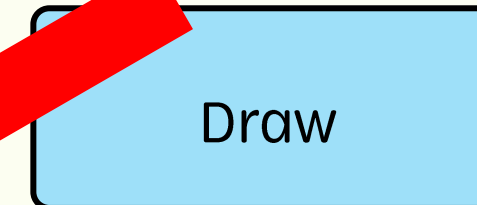
Draw and cross out

Use the parts

Count back

Use an addition fact

Which strategy is clearest for $12 - 3$?



Solve a Story in Four Steps

1 Read and find the starting amount.

2 Find what is on the way.

3 Show the problem.

4 Solve and check.

1 Read

2 Find

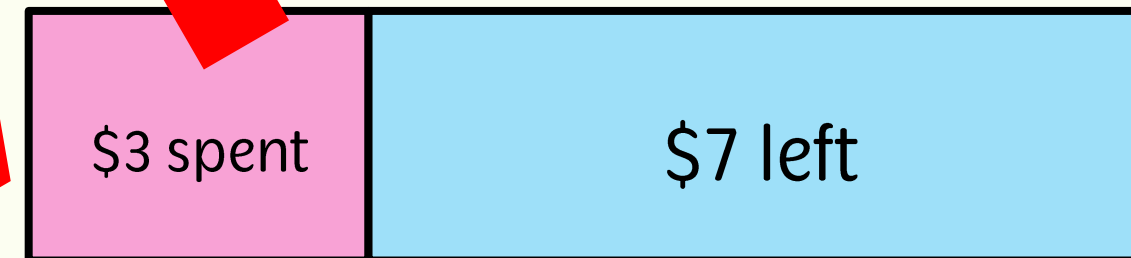
3 Show

4 Solve + check



Class Shop Story

Noah has \$10. He spends \$3 on a notebook. How much money remains?



$$10 - 3 = 7$$

$$10 - 3 = 7$$

\$7 remains.



Guided Practice

Solve and explain:

$$7 - 2$$

$$15 - 4$$

$$11 - 6$$

Use a different strategy for each one.

$$7 - 2$$

$$15 - 4$$

$$11 - 6$$

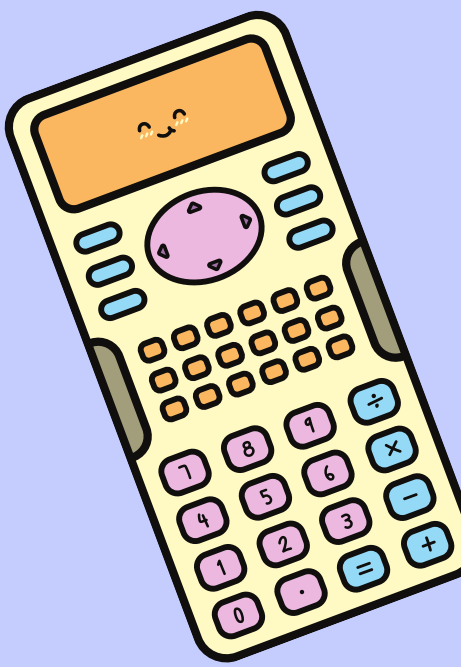
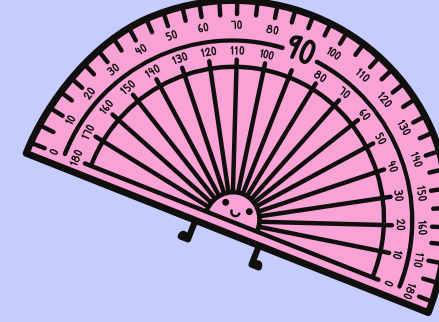
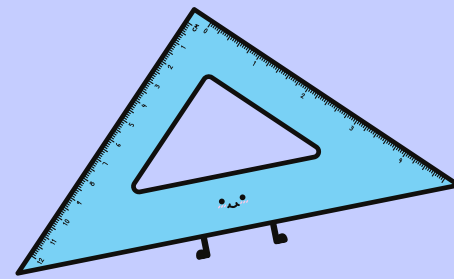
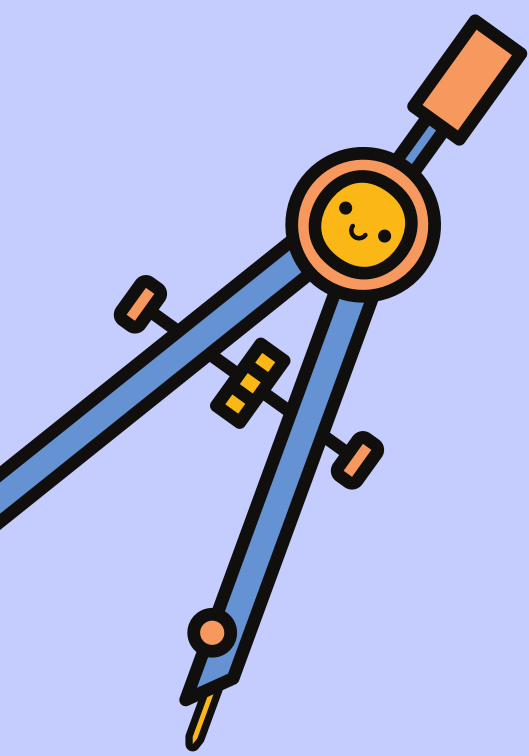


Remember

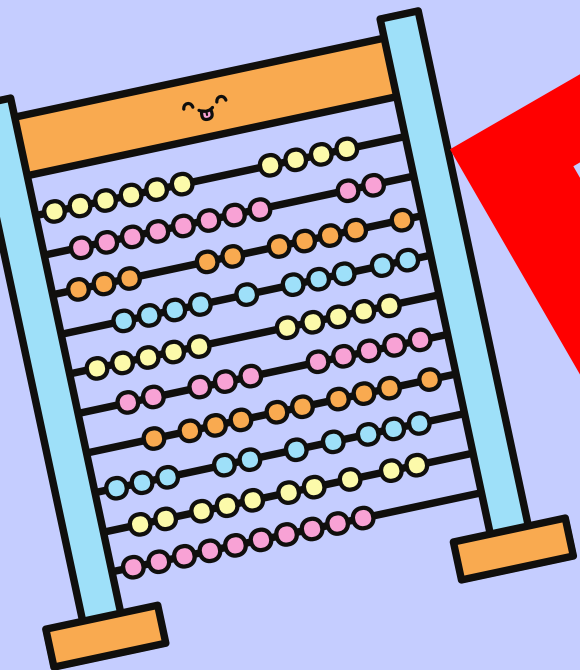
Subtraction means taking away or finding a missing part.

Show the problem. Choose a strategy. Check that the answer makes sense.

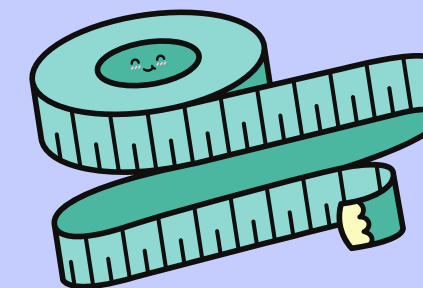
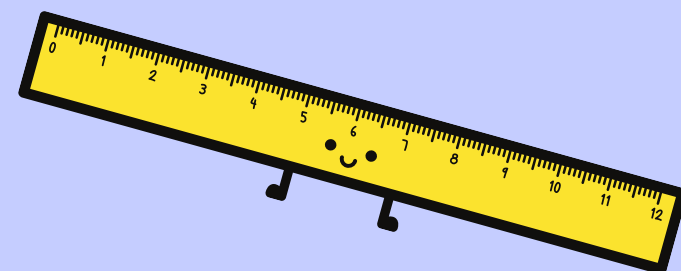
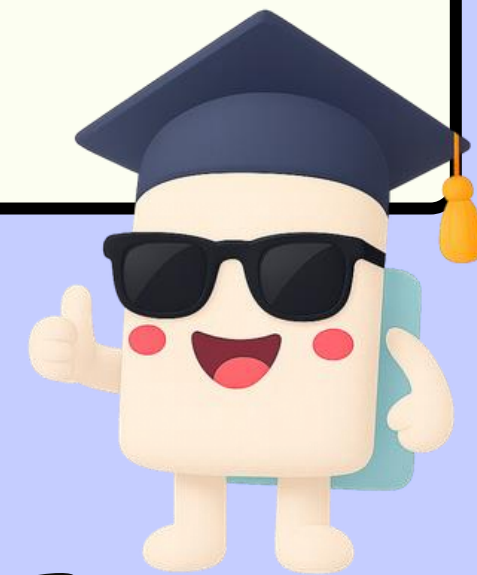




Well Done!



PREVIEW



Subtraction Quiz

Year 1 Mathematics

PREVIEW



Question 1

What is $9 - 3$?

A 5 B 6 C 7 D 12



Answer 1

Correct answer: B — 6



Question 2

True or false?

Subtraction can tell you how many are left after some are taken away.



Answer 2

PREVIEW

True



Question 3

Find $8 - 5$.



Answer 3

PREVIEW

3



Question 4

There are 10 apples. Four are eaten. How many remain?

A 4 B 5 C 6 D 14



Answer 4

Correct answer: C — 6



Question 5

True or false?

$$7 - 2 = 6$$



Answer 5

PREVIEW

$$7 - 2 = 5$$



Question 6

Start at 14 and count back 4.

Where do you land?



Answer 6

PREVIEW

10



Question 7

Find the missing number

$$12 - ? = 7$$

A 3 B 4 C 5 D 6



Answer 7

Correct answer: C – 5



Question 8

True or false?

The fact $6 + 3 = 9$ and $9 - 3 = 6$ belong to the same fact family.



Answer 8

PREVIEW

True



Question 9

Lina has \$10 and spends \$4.

How much remains?



Answer q

PREVIEW

\$6



Question 10

Thirteen birds sit on a fence. Five fly away. Which number sentence solves the story?

A $13 + 5 = 18$

B $13 - 5 = 8$

C $8 - 5 = 3$

D $13 - 8 = 5$

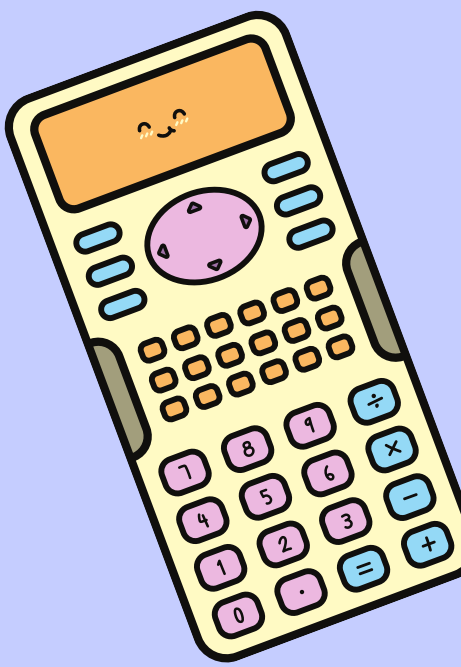
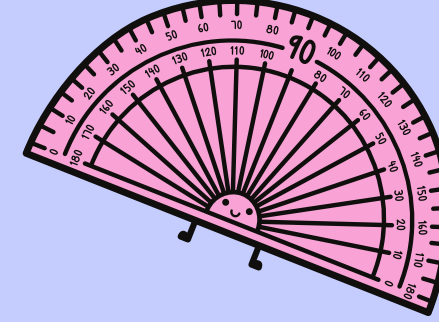
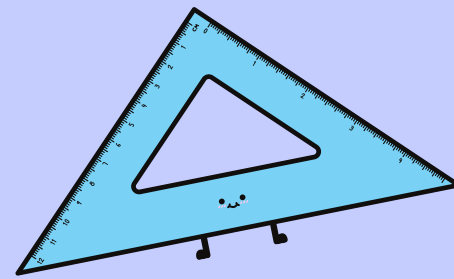
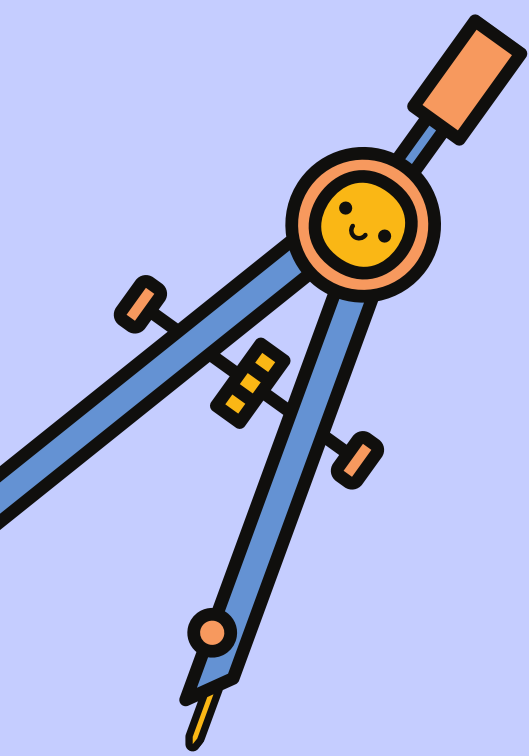


Answer 10

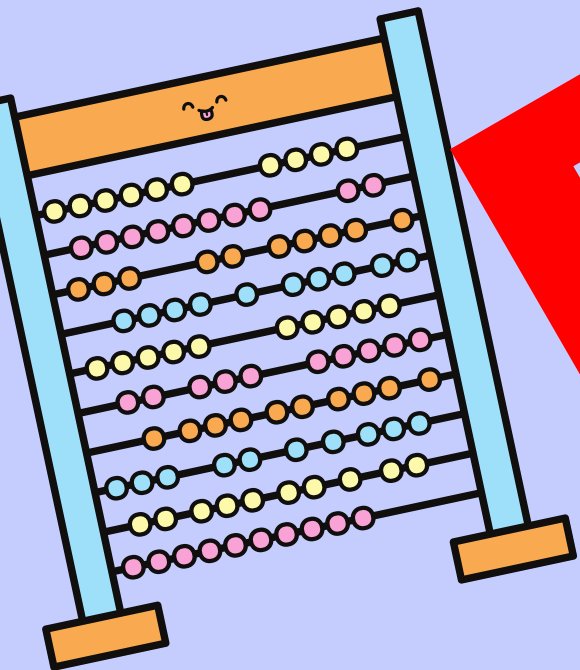
Correct answer: B

$$13 - 5 = 8$$





Well Done!



PREVIEW

