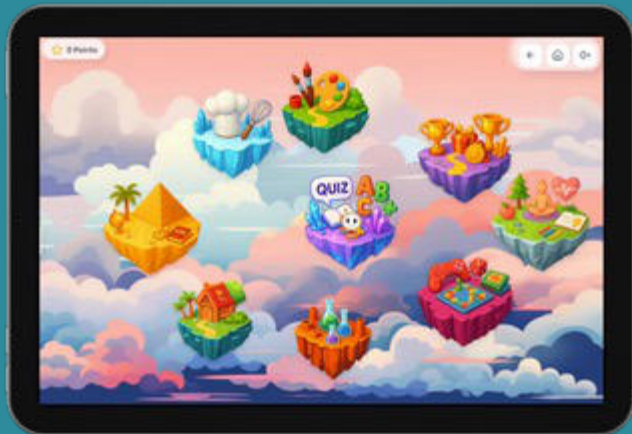


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Addition and Subtraction Stories with Role-Playing - Foundation

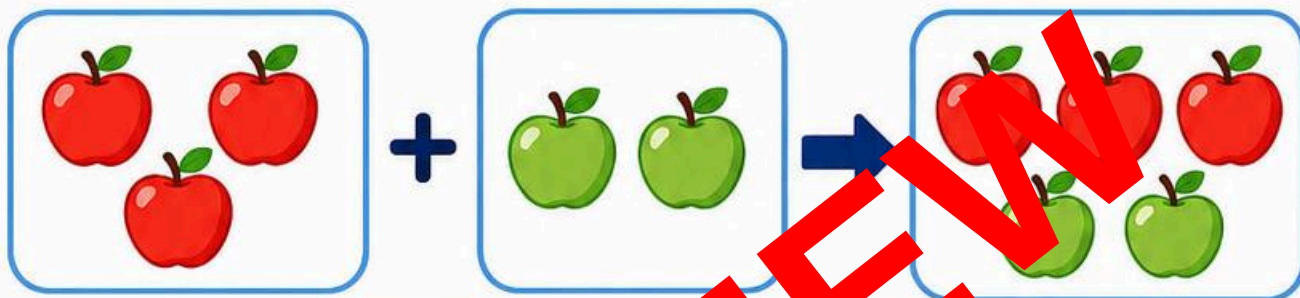
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Presentation: Addition and Subtraction Stories with Role-Playing	
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Worksheet 4: How Many Are Left?	
Worksheet 5: Join or Take Away?	
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JOIN, TAKE AWAY AND TELL THE STORY

ADDITION STORY

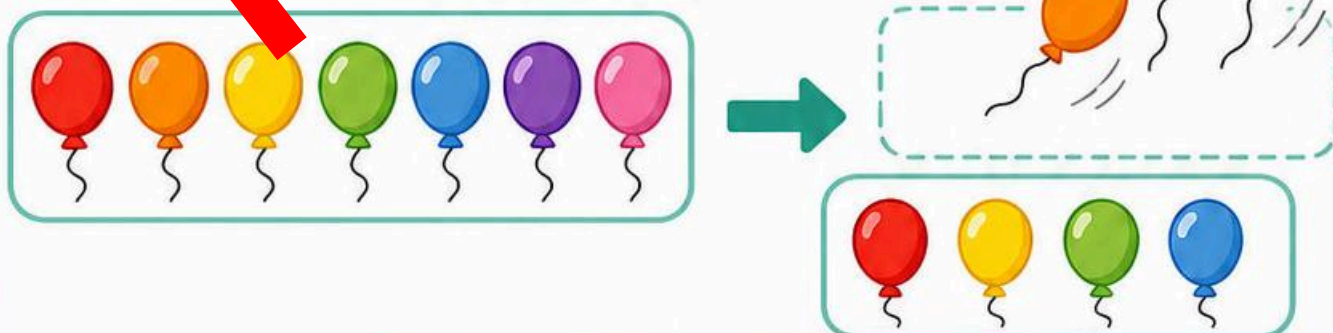
Groups join together.
How many altogether?



$$3 + 2 = 5$$

SUBTRACTION STORY

Some are taken away.
How many are left?



$$7 - 3 = 4$$



ACT IT OUT: JOIN TOGETHER

1. START

Place ____ counters.

2. JOIN

Add ____ more counters.

3. ALTOGETHER

Count every counter.

NUMBER SENTENCE

____ + ____

TELL THE STORY

ACT IT OUT: TAKE AWAY

1. START

Place ___ counters.

2. TAKE AWAY

Remove ___ counters.

3. LEFT

Count the counters left.

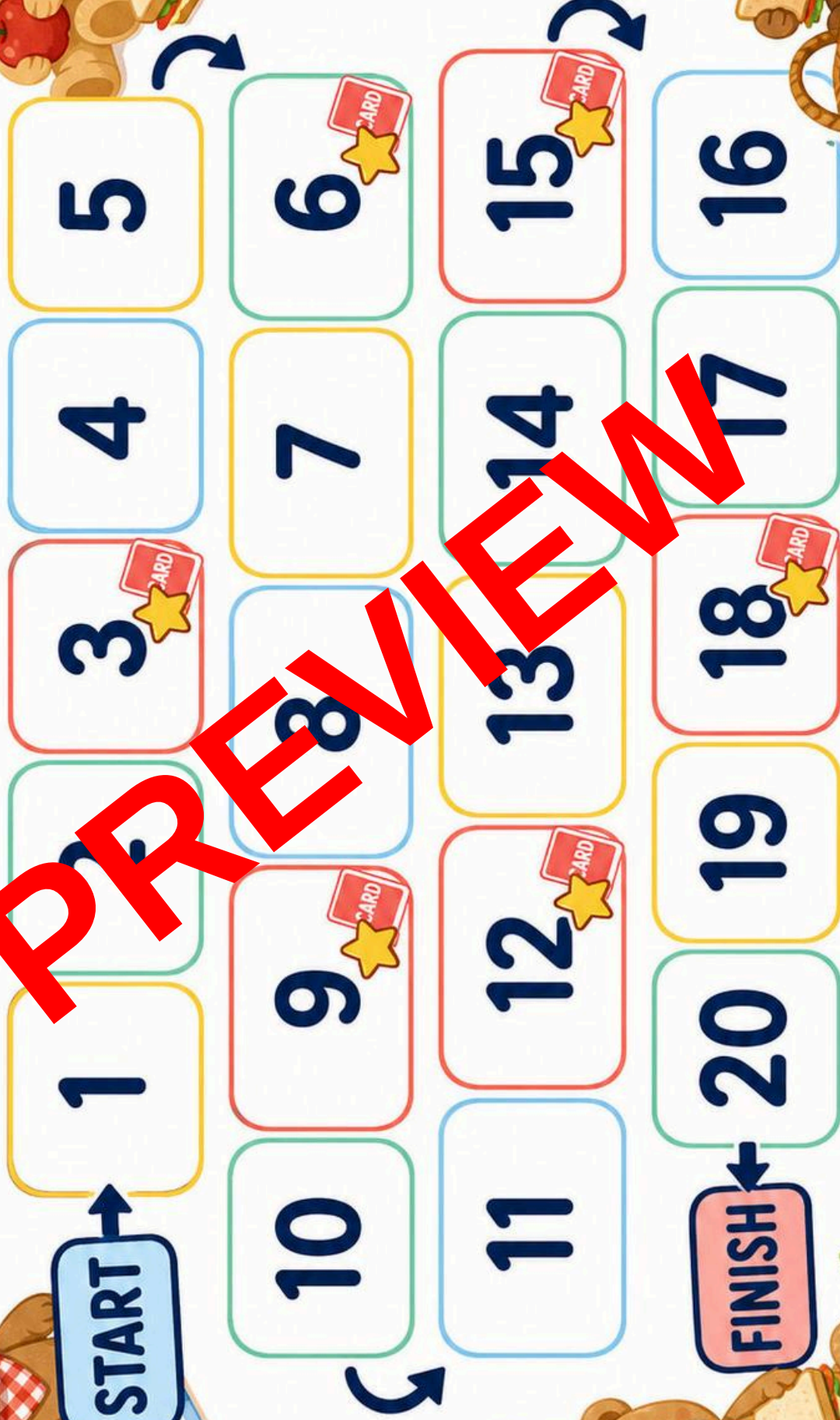
NUMBER SENTENCE

TELL THE STORY

PREVIEW

PICNIC STORY PATH

Roll. Move. Draw a card. Act it out. Solve it.



PICNIC STORY CARDS

3 bears sit down.
2 more bears join.
How many
altogether?



ANSWER

5 ducks are by
the pond.
3 more arrive.
How many
altogether?



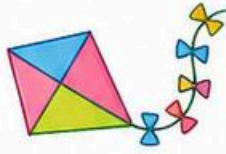
ANSWER

Apples are in
the basket. 3 more
are added.
How many
altogether?



ANSWER

1 kite is flying.
4 more kites go up.
How many
altogether?



ANSWER

9 flowers are in
a bunch.
4 are picked.
How many
are left?



ANSWER

6 crackers are on
the plate.
1 is taken.
How many
are left?



ANSWER

2 sandwiches are
on the plate.
5 more are added.
How many
altogether?



ANSWER

8 strawberries are
on the rug.
3 are eaten.
How many
are left?



ANSWER

10 grapes are in
a bowl.
5 are eaten.
How many
are left?



ANSWER

6 cups are ready.
2 more cups are
set out.
How many
altogether?



ANSWER

7 balloons are
tied up.
2 fly away.
How many
are left?



ANSWER

5 toy bears are
playing.
2 go home.
How many
are left?



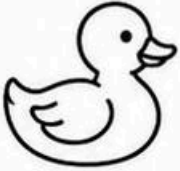
ANSWER

DRAW AND JOIN

Name: _____



Draw the group that joins. Then solve.



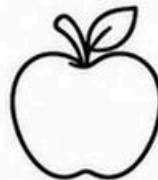
1. 2 ducks are at the pond. 3 more ducks join.



2. 4 bears are on the rug. 2 more bears join.



3. 1 balloon is in the sky. 5 more balloons rise.



4. 3 apples are in the basket. 4 more apples are added.

$$2 + 3 = \underline{\quad}$$

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

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

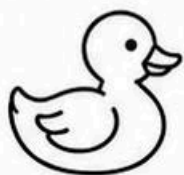
$$3 + 4 = \underline{\quad}$$

DRAW AND JOIN

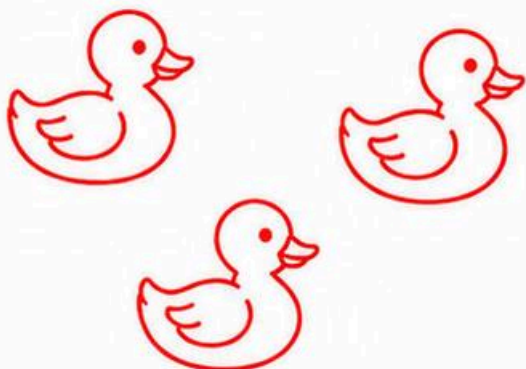
ANSWERS



Draw the group that joins. Then solve.



1. 2 ducks are at the pond. 3 more ducks join.



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



2. 4 bears are on the rug. 2 more bears join.



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



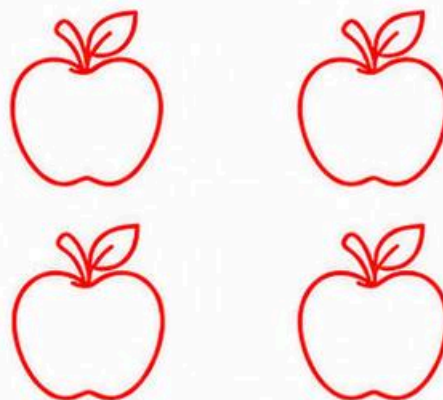
3. 1 balloon is in the sky. 5 more balloons rise.



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



4. 3 apples are in the basket. 4 more apples are added.

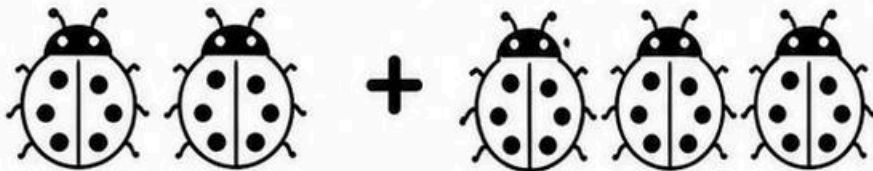


$$3 + 4 = \underline{7}$$

HOW MANY ALTOGETHER?

Name: _____

Count each group. Then add.



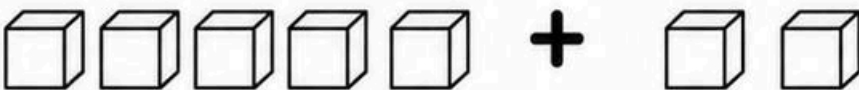
1. $2 + 3 = \underline{\quad}$



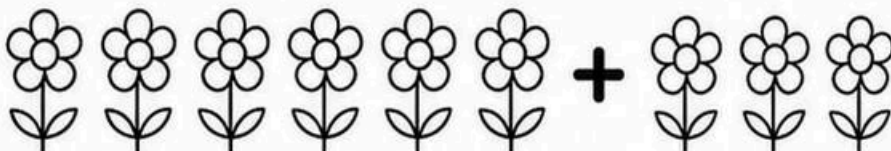
2. $4 + 1 = \underline{\quad}$



3. $3 + 4 = \underline{\quad}$



4. $5 + 2 = \underline{\quad}$

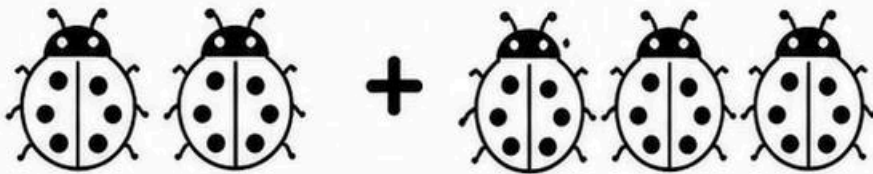


5. $6 + 3 = \underline{\quad}$

HOW MANY ALTOGETHER?

ANSWERS

Count each group. Then add.



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



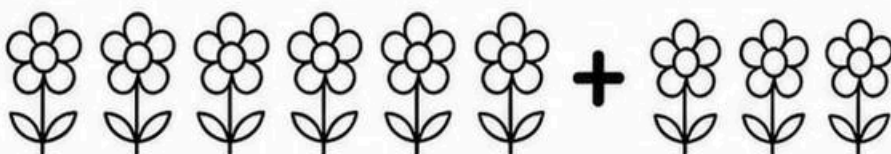
$$2. 4 + 1 = \underline{5}$$



$$3. 3 + 4 = \underline{7}$$



$$4. 5 + 2 = \underline{7}$$



$$5. 6 + 3 = \underline{9}$$

DRAW AND TAKE AWAY

Name: _____

 **X** Draw the whole group. Cross out what goes away. Then solve.

1. 7 ducks are at the pond.
2 ducks swim away.



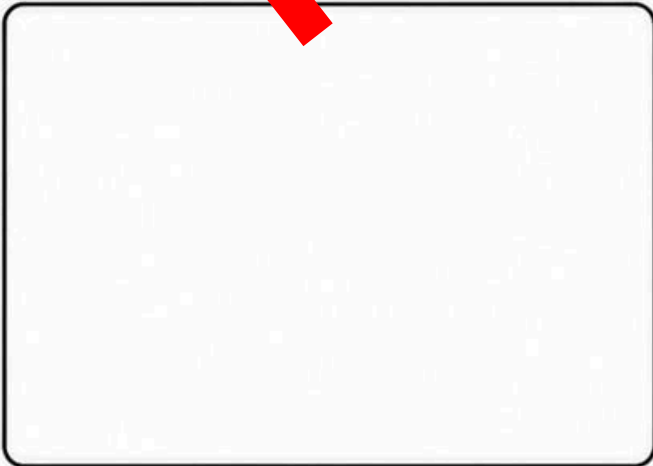
$$7 - 2 = \underline{\quad}$$

2. 6 bears are on the rug.
1 bear goes home.



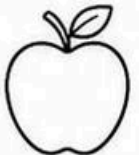
$$6 - 1 = \underline{\quad}$$

3. 8 balloons are tied up.
3 balloons fly away.



$$8 - 3 = \underline{\quad}$$

4. 5 apples are in the basket.
2 apples are eaten.



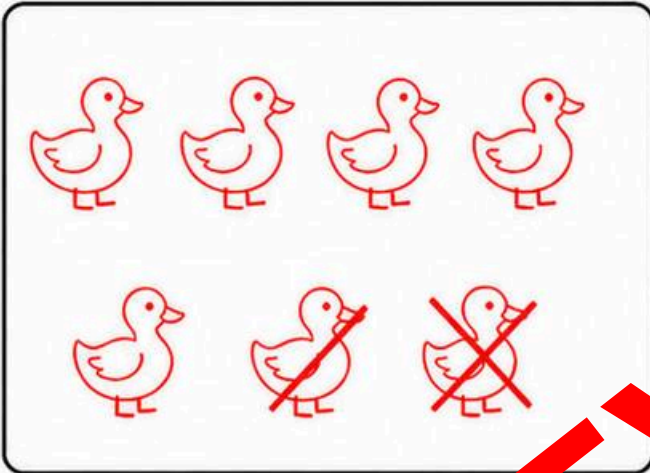
$$5 - 2 = \underline{\quad}$$

DRAW AND TAKE AWAY

Name: ANSWERS

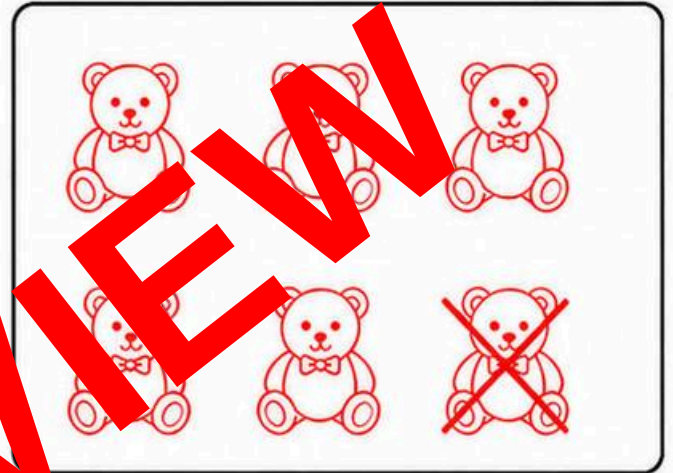
 **X** Draw the whole group. Cross out what goes away. Then solve.

1. 7 ducks are at the pond.
2 ducks swim away.



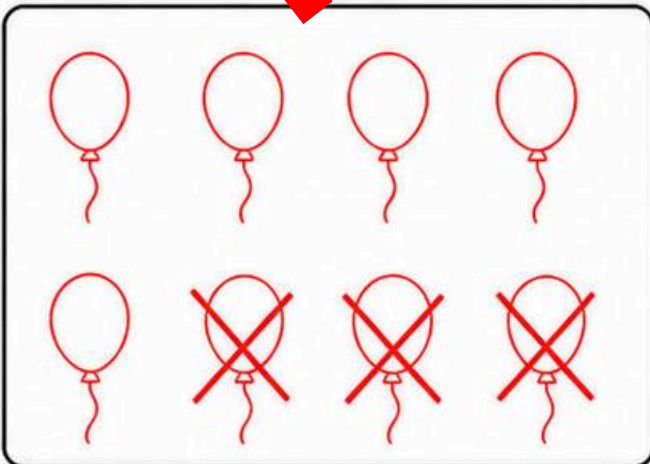
$$7 - 2 = \underline{5}$$

2. 6 bears are on the rug.
1 bear goes home.



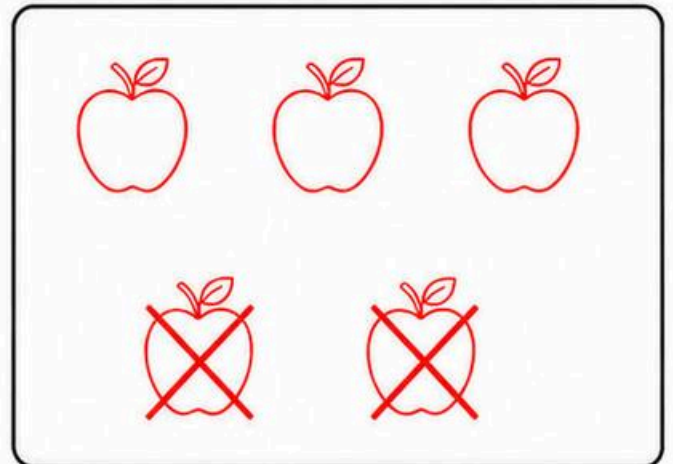
$$6 - 1 = \underline{5}$$

3. 8 balloons are tied to the post.
3 balloons fly away.



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

4. 5 apples are in the basket.
2 apples are eaten.

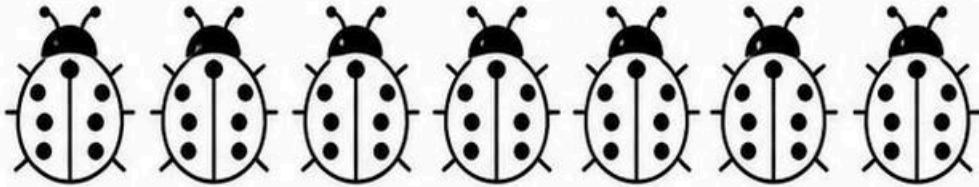


$$5 - 2 = \underline{3}$$

HOW MANY ARE LEFT?

Name: _____

Cross out what goes away. Count how many are left. Then solve.



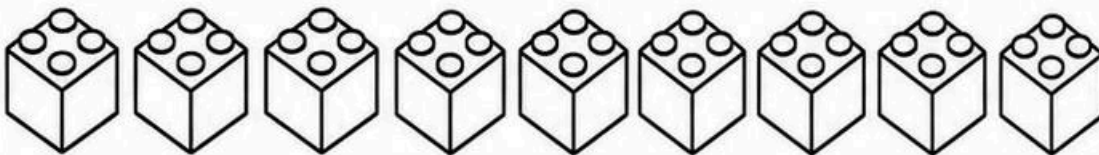
$7 - 2 = \underline{\quad}$



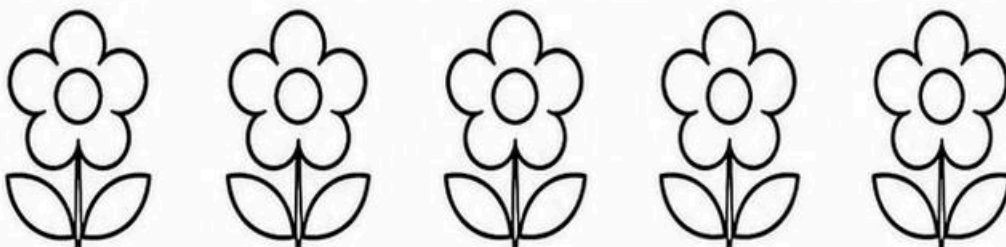
$6 - 1 = \underline{\quad}$



$8 - 3 = \underline{\quad}$



$9 - 4 = \underline{\quad}$

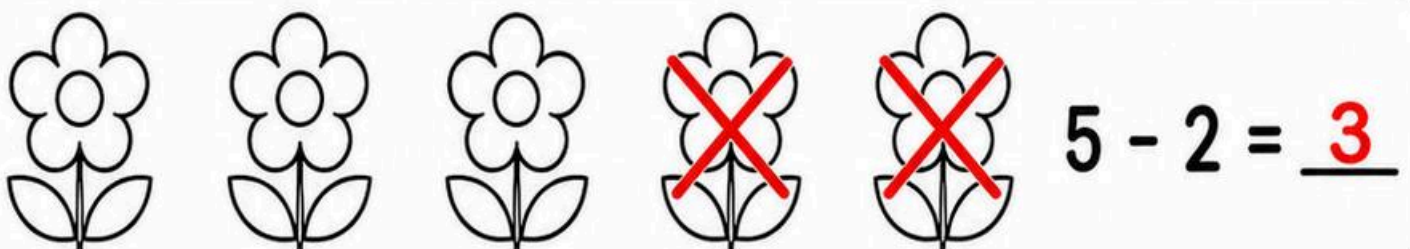
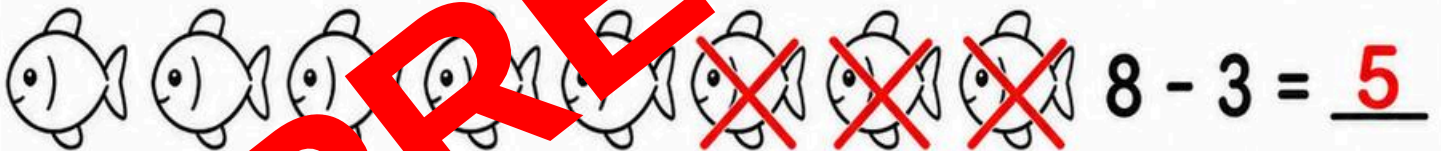
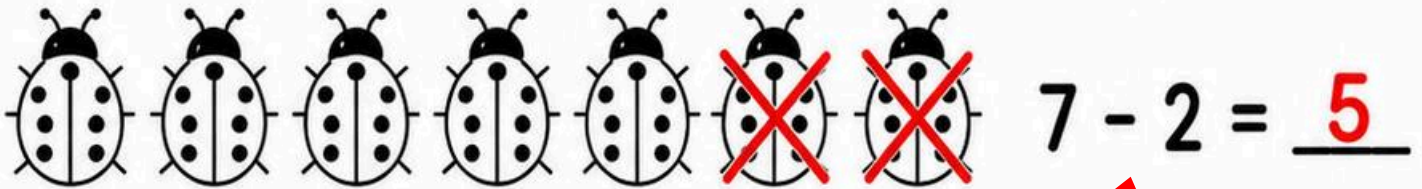


$5 - 2 = \underline{\quad}$

HOW MANY ARE LEFT?

Name: ANSWERS

Cross out what goes away. Count how many are left. Then solve.

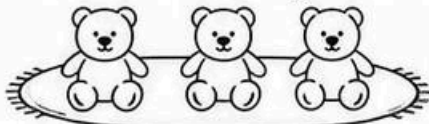


JOIN OR TAKE AWAY?

Name: _____

Read each story. Circle JOIN or TAKE AWAY. Solve the last two.

1. 3 bears are on the rug.
2 more bears join them.



JOIN

TAKE AWAY

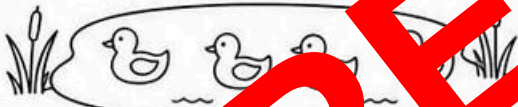
2. 7 apples are in a basket.
3 apples are eaten.



JOIN

TAKE AWAY

3. 4 ducks are in the pond.
4 more ducks arrive.



JOIN

TAKE AWAY

4. 9 balloons are tied up.
2 balloons fly away.



JOIN

TAKE AWAY

5. 2 cars are on the mat.
5 more cars roll in.



JOIN

TAKE AWAY

$$2 + 5 = \underline{\quad}$$

6. 8 blocks are in a tower.
3 blocks are put away.



JOIN

TAKE AWAY

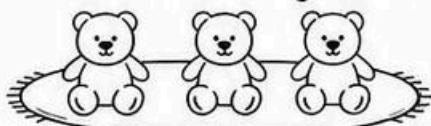
$$8 - 3 = \underline{\quad}$$

JOIN OR TAKE AWAY?

Name: ANSWERS

Read each story. Circle JOIN or TAKE AWAY. Solve the last two.

1. 3 bears are on the rug.
2 more bears join them.



JOIN

TAKE AWAY

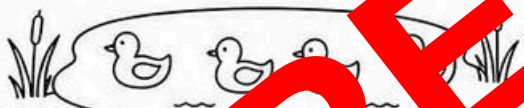
2. 7 apples are in a basket.
3 apples are eaten.



JOIN

TAKE AWAY

3. 4 ducks are in the pond.
4 more ducks arrive.



JOIN

TAKE AWAY

4. 9 balloons are tied up.
2 balloons fly away.



JOIN

TAKE AWAY

5. 2 cars are on the mat.
5 more cars roll in.



JOIN

TAKE AWAY

$$2 + 5 = \underline{7}$$

6. 8 blocks are in a tower.
3 blocks are put away.



JOIN

TAKE AWAY

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

MY ROLE-PLAY NUMBER STORY

Name: _____

Choose JOIN or TAKE AWAY. Act it out. Then record your story.

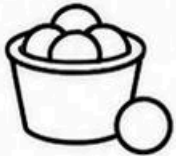
JOIN

TAKE AWAY



1. MY OBJECTS

I used: _____



2. DRAW THE STORY



3. TELL THE STORY

First, _____

Then, _____

Now, _____



4. NUMBER SENTENCE

_____ = _____

TEDDY BEAR PICNIC STORY CHECK

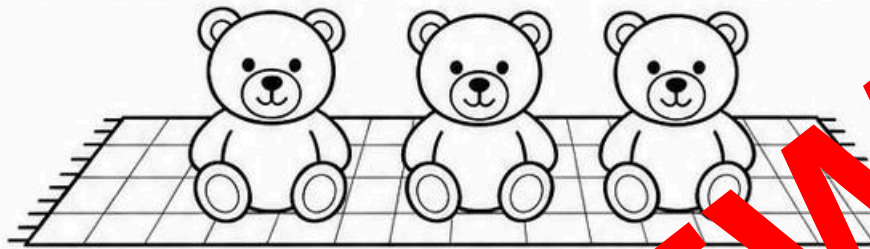
Name: _____

PAGE 1: JOIN TOGETHER

1. 3 bears are at the picnic. 2 more bears arrive.
Circle the action.

JOIN

TAKE AWAY



2. Draw the 2 bears that join the picnic.

Blank space for drawing the 2 bears that join the picnic.

3. Complete the number sentence.

$$3 + 2 = \underline{\quad}$$

4. 4 apples are in the basket. 3 more apples are added.
Draw or model the story. Then solve.

Blank space for drawing or modeling the story.

$$4 + 3 = \underline{\quad}$$

Tell how you know: _____

TEDDY BEAR PICNIC STORY CHECK

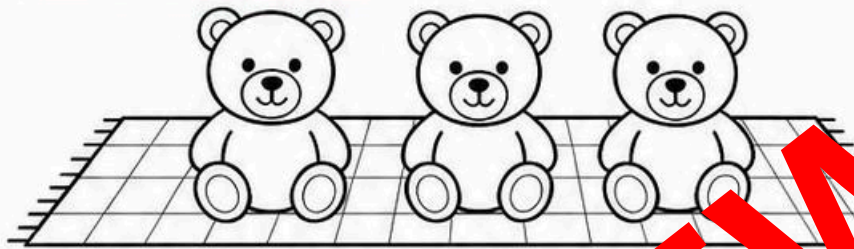
Name: ANSWERS

PAGE 1: JOIN TOGETHER

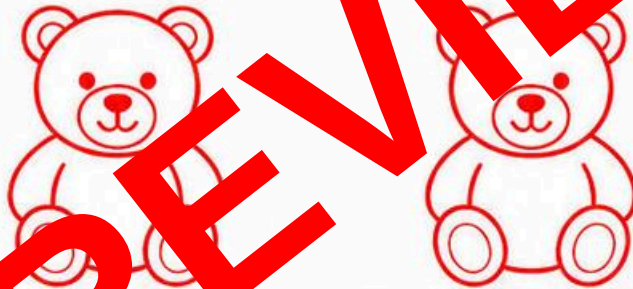
1. 3 bears are at the picnic. 2 more bears arrive.
Circle the action.

JOIN

TAKE AWAY



2. Draw the 2 bears that join the picnic.



3. Complete the number sentence.

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

4. 4 apples are in the basket. 3 more apples are added.
Draw or model the story. Then solve.



$$4 + 3 = \underline{7}$$

Tell how you know: I joined the groups and counted all.

TEDDY BEAR PICNIC STORY CHECK

Name: _____

PAGE 2: TAKE AWAY

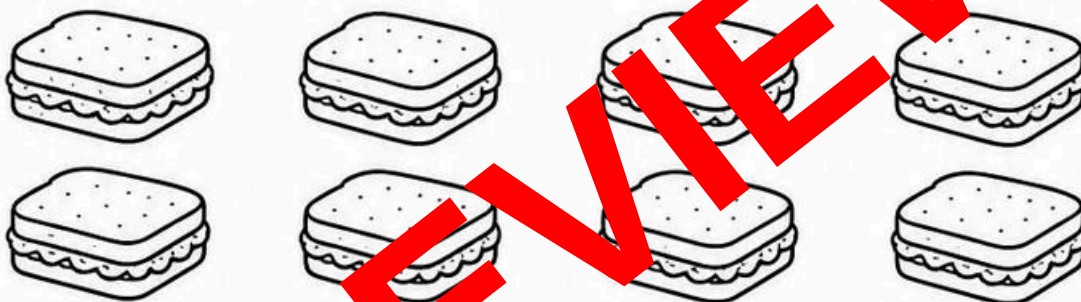
1. 8 sandwiches are on the picnic rug. 3 are eaten.
Circle the action.



JOIN

TAKE AWAY

2. Cross out the 3 sandwiches that are eaten. Then solve.



$$8 - 3 = \underline{\quad}$$

3. 7 balloons are tied to the picnic table. 2 fly away.
Cross out the 2 balloons that fly away. Then solve.



$$7 - 2 = \underline{\quad}$$

4. Tell how you know:

TEDDY BEAR PICNIC STORY CHECK

Name: ANSWERS

PAGE 2: TAKE AWAY

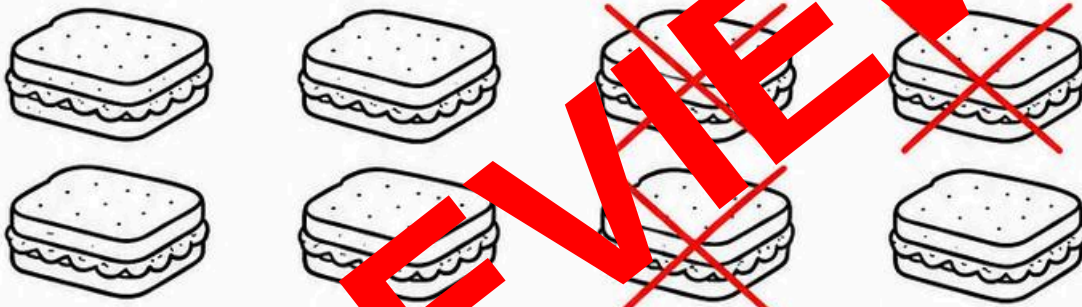
1. 8 sandwiches are on the picnic rug. 3 are eaten.
Circle the action.



JOIN

TAKE AWAY

2. Cross out the 3 sandwiches that are eaten. Then solve.



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

3. 7 balloons are tied to the picnic table. 2 fly away.
Cross out the 2 balloons that fly away. Then solve.



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

4. Tell how you know:

I crossed out what went away and counted what was left.

ADDITION AND SUBTRACTION STORIES WITH ROLE-PLAYING RUBRIC

Student: _____

Date: _____

CRITERION	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
Identifies the story action	Needs help to choose.	Chooses with a prompt.	Correctly chooses join or take away.	Chooses and gives a reason.	Creates a story with a clear action.
Acts out or models the story	Needs help to begin.	Models part of the story.	Correctly models the full story.	Models clearly and checks each step.	Uses more than one clear model.
Finds how many altogether or left	Needs help to count.	Counts with a prompt.	Correctly finds the amount.	Finds and checks the amount.	Solves and explains another way.
Records a matching number sentence	Needs help to record.	Records some numbers.	Records a matching sentence.	Records and checks the sentence.	Creates a new matching sentence.
Explains the solution	Needs help to explain.	Gives a short idea.	Explains what happened.	Uses maths words to explain.	Explains and justifies clearly.

PREVIEW

Addition and Subtraction Stories with Role Playing



Learning Intention

We are learning to count out, model and solve number stories.

Some stories join groups. Some stories take items away.



What Is a Number Story?

A number story is a short math story about what happens to a group.

Act it out. Draw it. Match it to a number sentence.

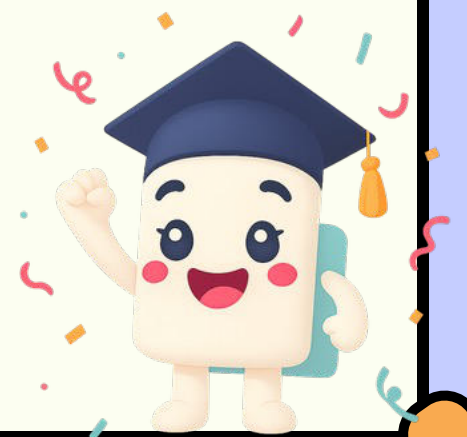


Addition Stories

Groups join together.

Find out how many there are altogether.

The plus sign (+) means join.



Addition Routine

START with the first group.

ADD in the next group.

COUNT all the objects.

SAY the number sentence.



Worked Addition

3 ducks are at the pond.

2 more ducks join them.

Count all the ducks.

$$3 + 2 = 5$$



Role-Play Addition

4 teddy bears are at the picnic.

3 more teddy bears arrive.

What is the joining story?

$$4 + 3 = 7$$



Guided Addition

Put down 2 red balls.

Join 5 blue balls.

How many balls are there altogether?

$$2 + 5 = 7$$



Try an Addition Story

6 animals are playing

2 more animals join them.

Put it all together. Draw it. Solve it.

6 + 2 = _____



Subtraction Stories

Some items are taken away.

Find how many are left.

A minus sign (-) means take away.



Subtraction Routine

START with the whole group.

TAKEN AWAY some objects.

COUNT what is left.

SAID the number sentence.



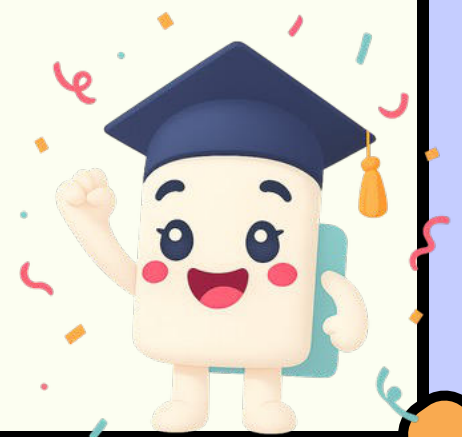
Worked Subtraction

8 apples are in the basket.

3 apples are taken away.

Count the apples that are left.

$$8 - 3 = 5$$



Role-Play Subtraction

7 ice creams are ready.

2 ice creams are sold.

Act out the taking-away story.

$$7 - 2 = 5$$



Guided Subtraction

Build a tower with 10 blocks.
Take away 4 blocks.
How many blocks are left?
 $10 - 4 = 5$



Try a Subtraction Story

8 toy cars are on the mat.

3 toy cars roll away.

How many are left? Draw it. Solve it.

$$8 - \underline{\quad}$$

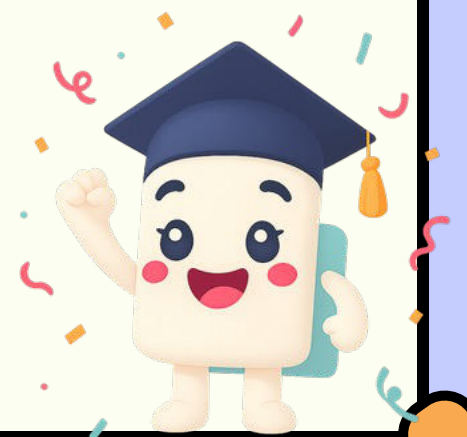


Choose the Action

JOIN clues: more and more, come in, come together.

TAKE AWAY clues: leave, go away, are eaten.

Ask: What happens to the group?

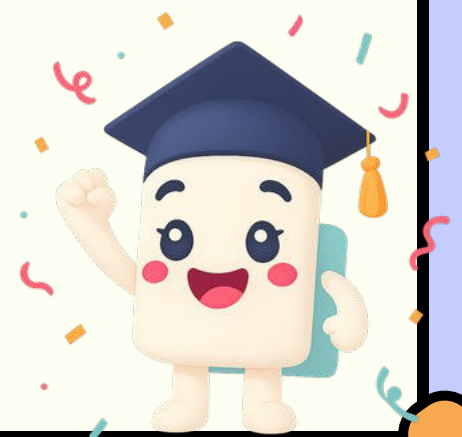


Tell Your Own Story

Choose some objects.

Choose JOIN or TAKE AWAY.

Act it out, count it and write the number sentence.

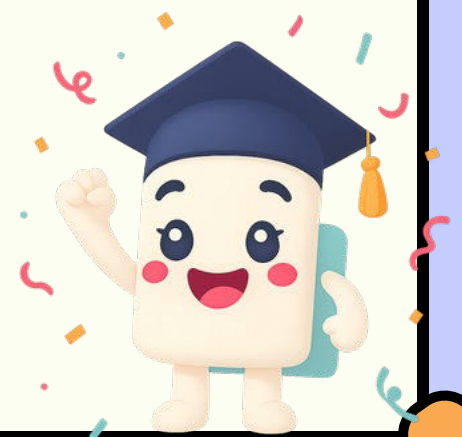


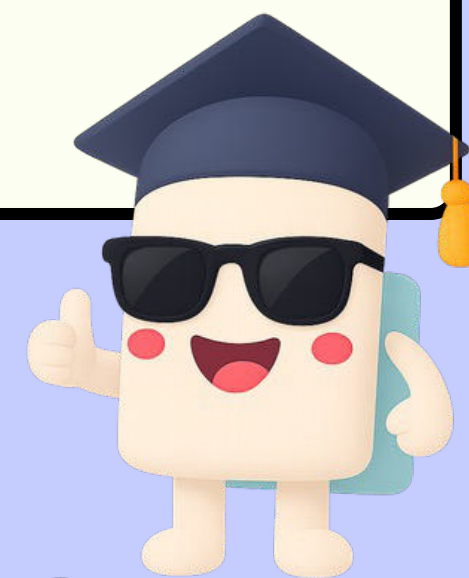
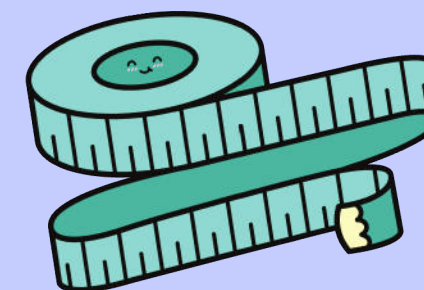
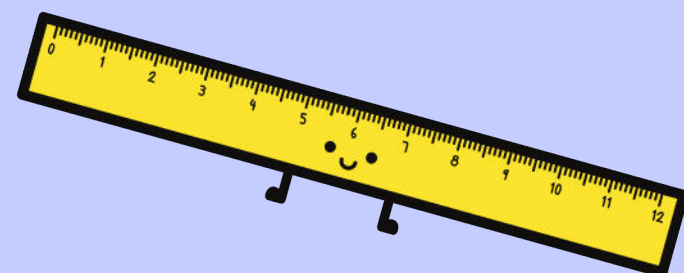
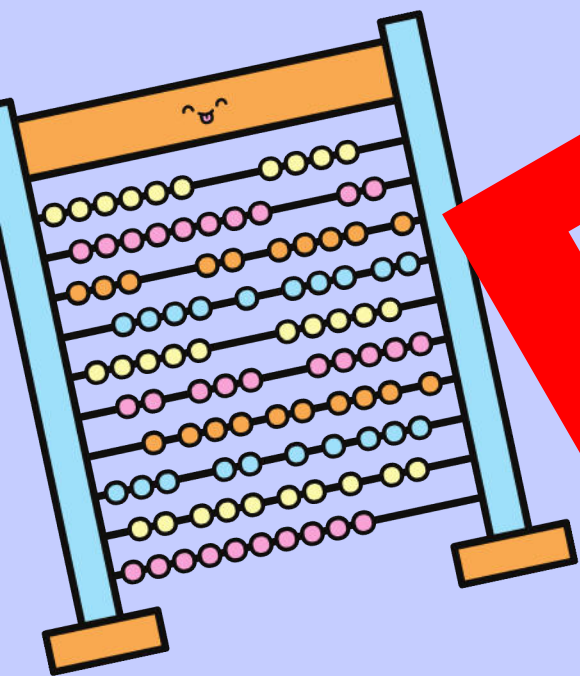
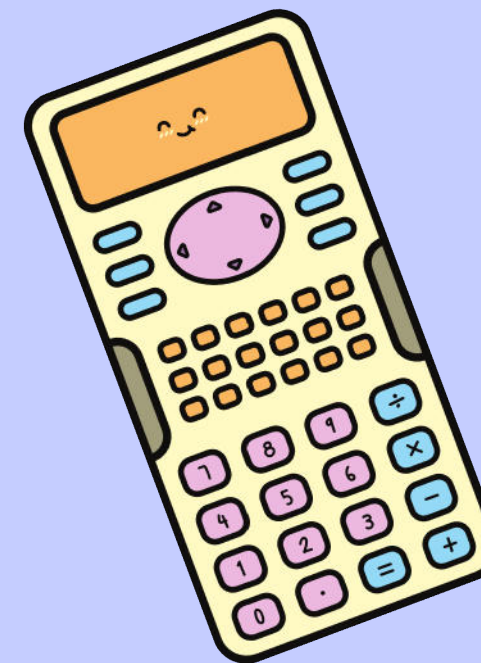
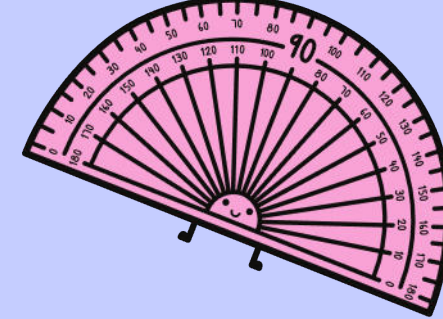
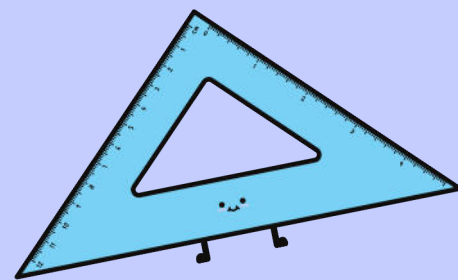
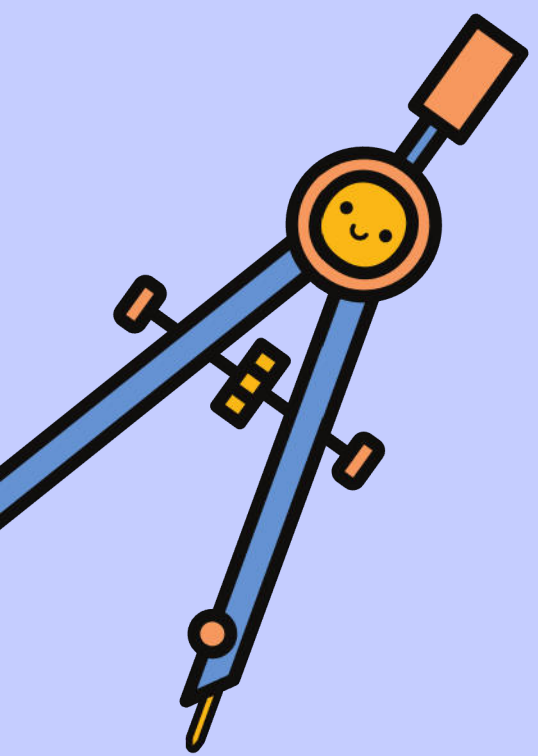
Remember

Altogether means join and add.

Left means take away and subtract.

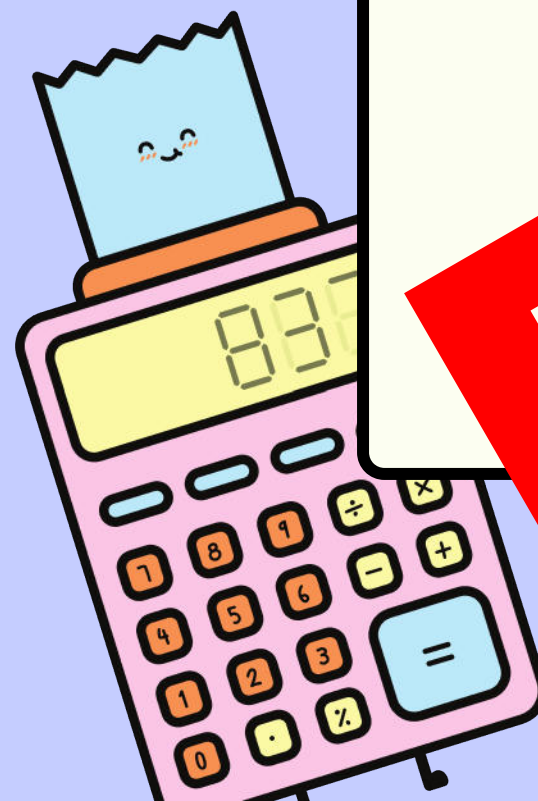
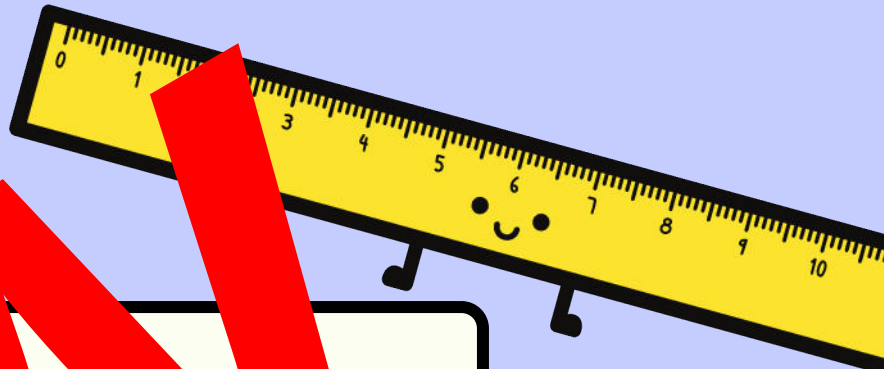
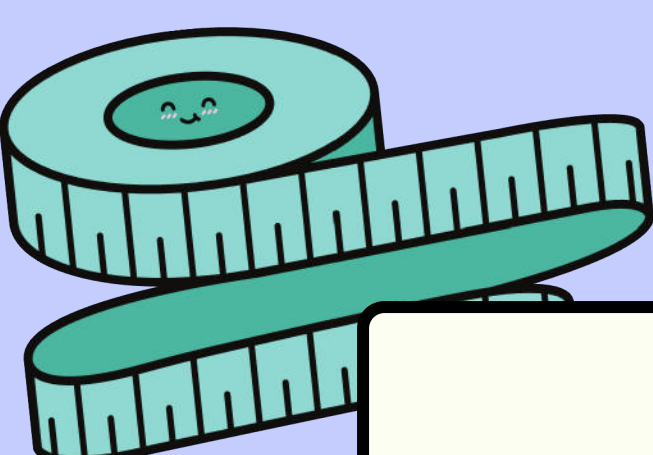
Read the story before you solve.





Well Done!

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Addition and Subtraction Number Story Quiz



Question 1

Which action usually belongs to an addition?

A. Groups join together

B. Some items are taken away

C. Nothing changes

D. Count backwards



Answer 1

A. Group join together.

Addition stories to show groups join and how many there are altogether.



Question 2

Which action usually belongs in the subtraction step?

- A. More items are added
- B. Groups join together
- C. Some items are taken away
- D. Count everything twice



Answer 2

C. Some items can be taken away

Subtraction stories ask how many are left.



Question 3

True or false?
3 birds are joined to 2 birds.
There are 5 birds altogether.



Answer 3

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$$3 + 2 = 5$$



Question 4

4 teddy bears are at the picnic.

3 more teddy bears join them.

How many teddy bears are there altogether?

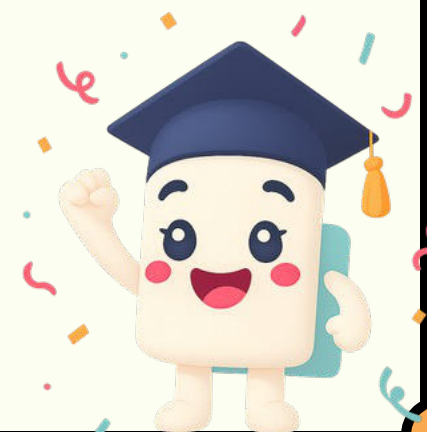


Answer 4

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7 teddy bears

$$4 + 3 = 7$$



Question 5

6 blocks are in a tower. 2 are pulled away.

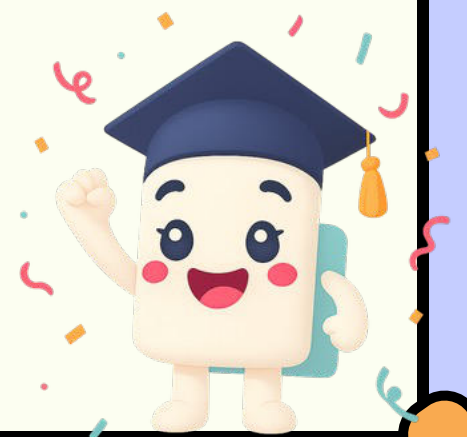
Which number sentence matches?

A. $6 + 2 = 8$

B. $6 - 2 = 4$

C. $2 + 2 = 4$

D. $6 - 4 = 2$



Answer 5

$$B. 6 - 2 = 4$$

Two blocks are taken away, so four are left.



Question 6

true or false

$$8 - 3 = 6$$



Answer 6

FALSE

$$8 - 3 = 5$$



Question 7

2 red counters and 5 yellow counters join.

How many counters are there altogether?



Answer 7

7 counters

$$2 + 5 = 7$$



Question 8

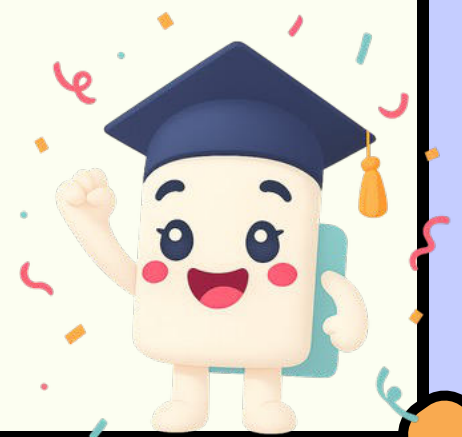
Which clue tells you to make a drawing?

A. How many walked together?

B. How many cars left?

C. How many joined?

D. How many arrived?



Answer 8

How many are left?

The word left is a clue that items went away.



Question 9

9 toy cars are on the mat.

4 toy cars roll away.

How many toy cars are left?



Answer 9

5 to 9 ars

$$9 - 4 = 5$$



Question 10

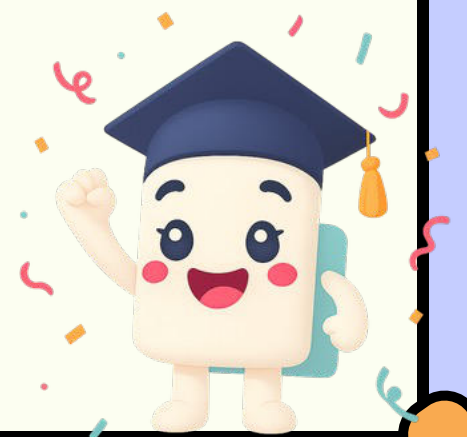
True or false?

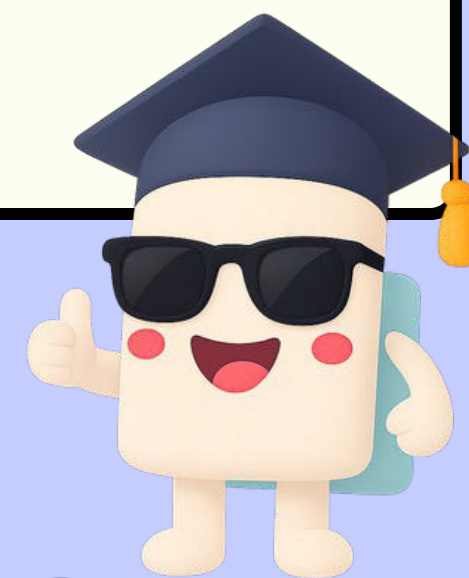
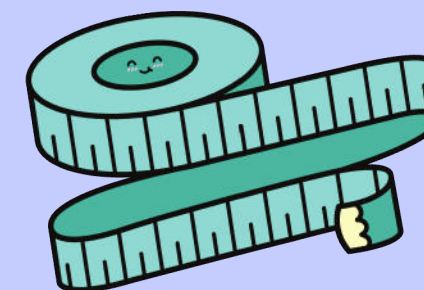
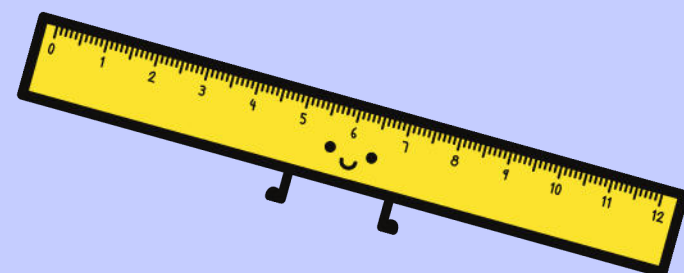
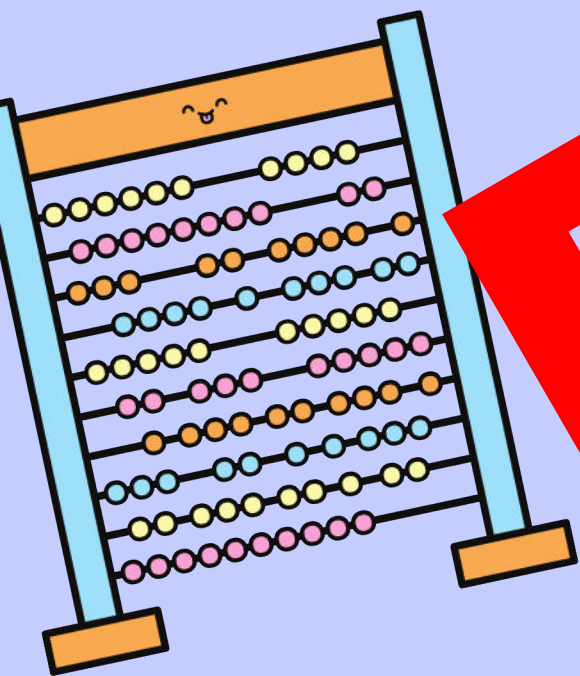
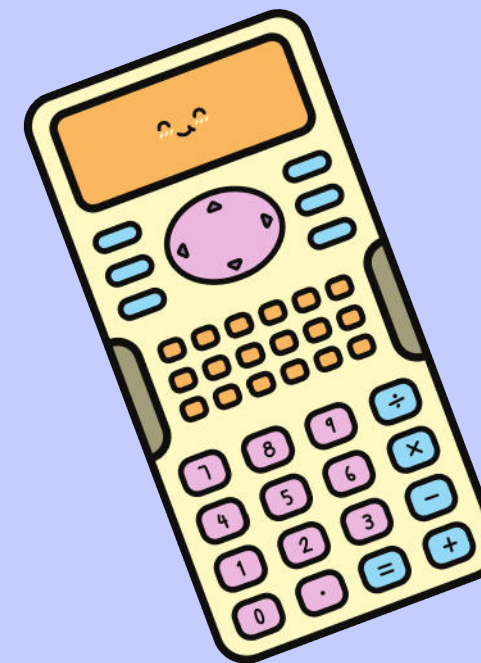
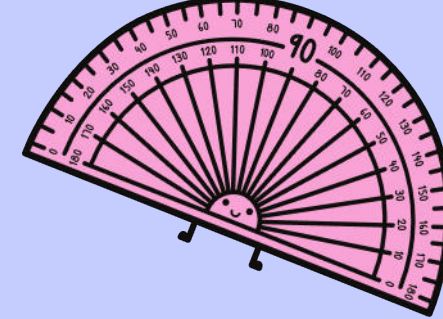
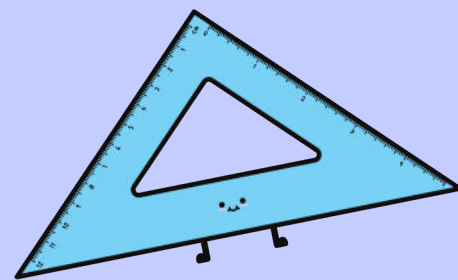
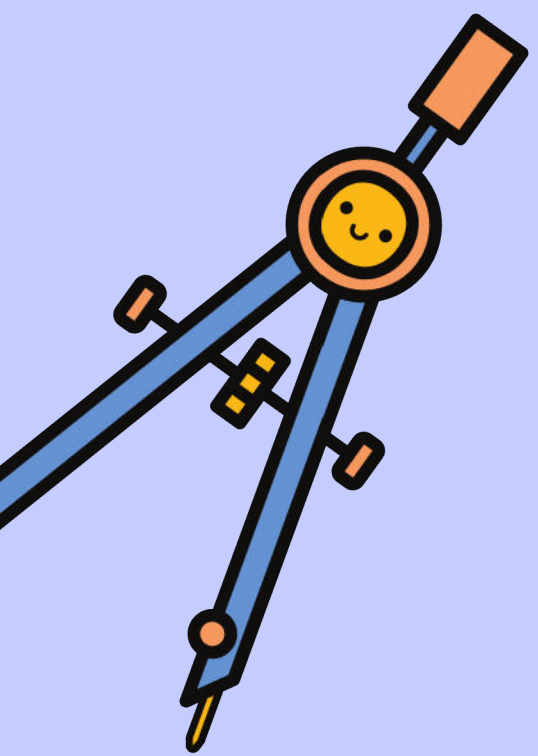
An addition story can ask how many there are altogether.



Answer 10

Altogether is a clue that groups join.





Well Done!

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