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Addition and Subtraction Stories - Foundation

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Number Story Steps

1

ACT IT

Use counters.



2

DRAW IT

Show what happens.



3

WRITE IT

Write a number sentence.



4

CHECK IT

Does your answer fit the story?

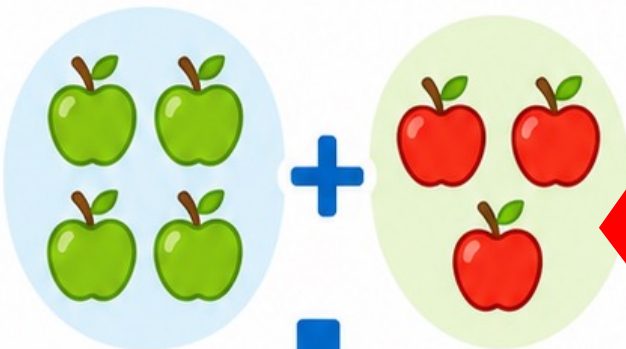


$$3 + 2 = 5$$

$$7 - 3 = 4$$

Add or Take Away

ADD



join.

group.

How many altogether?

$$4 + 3 = 7$$

TAKE AWAY



Some leave.

Some are used.

How many are left?

$$8 - 2 = 6$$

Put It Out: Number Story Mat

START

CHANGE

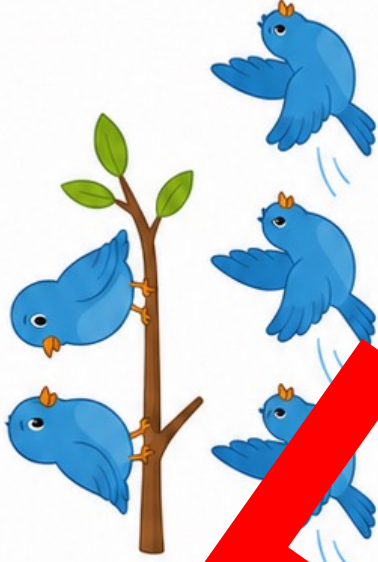
RESULT

NUMBER SENTENCE

NUMBER STORY PUZZLES - A

There are 2 birds.

3 more are added.
How many now?



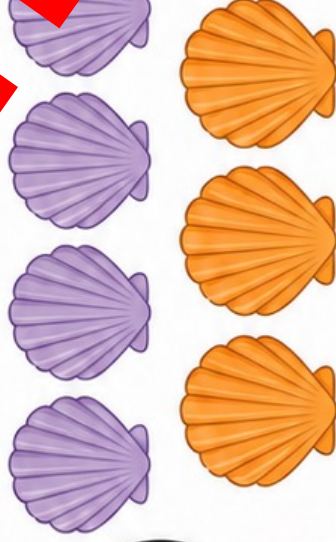
$$2 + 3 = 5$$

Six apples are
on a plate.
2 are eaten.
How many are left?



$$6 - 2 = 4$$

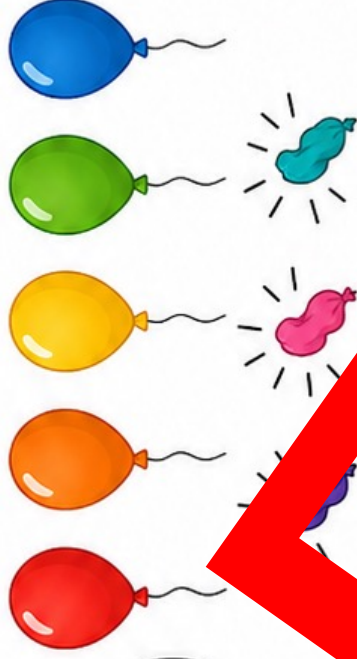
Mia has 4 shells.
She finds 3 more.
How many altogether?



$$4 + 3 = 7$$

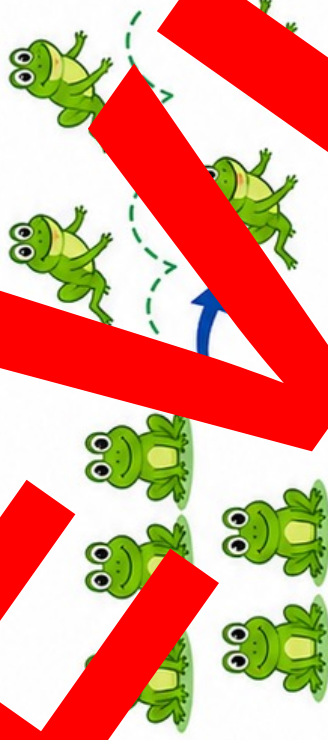
NUMBER STORY PUZZLES - B

Eight balloons are
tied up. 3 balloons
How many remain?



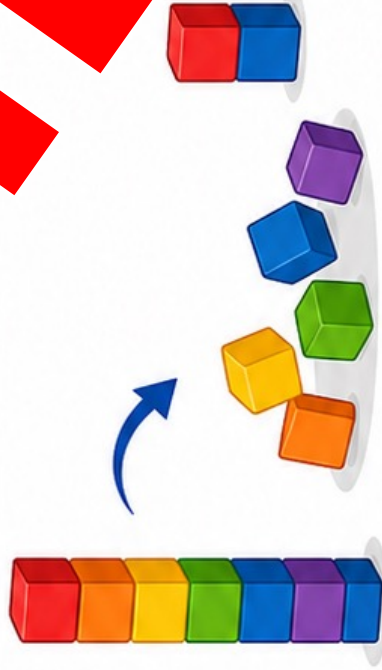
$$8 - 3 = 5$$

There are 5 frogs.
4 more hop over.
How many frogs now?



$$5 + 4 = 9$$

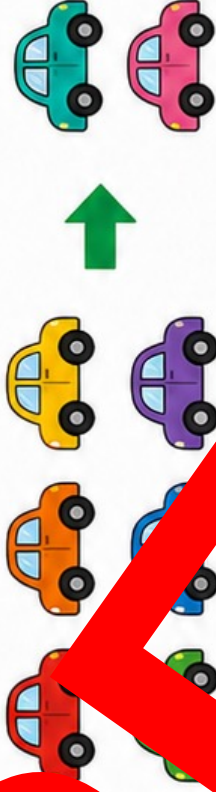
Seven blocks are in
a tower. 5 fall down.
How many stay up?



$$7 - 5 = 2$$

NUMBER STORY PUZZLES - C

There are 6 cars. 2 more cars arrive. How many cars now?



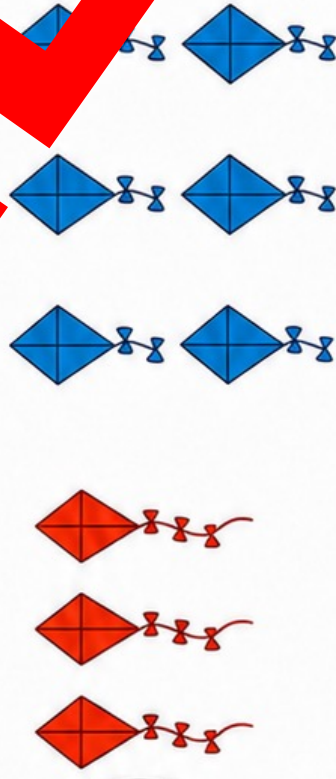
$$6 + 2 = 8$$

Ten fish swim in a pond. 4 swim away. How many remain?



$$10 - 4 = 6$$

Three red kites and 6 blue kites fly. How many altogether?



$$3 + 6 = 9$$

Peg the Answer

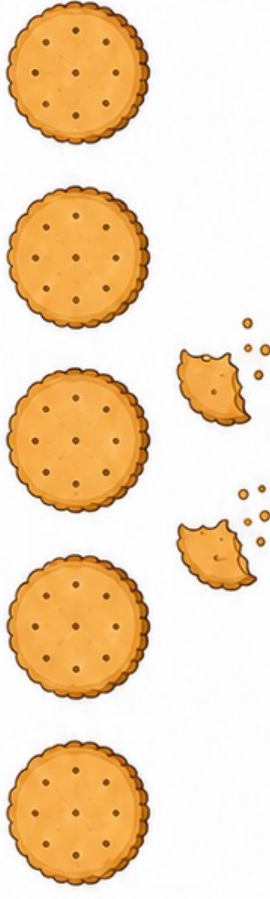
There are 3 cats and 2 dogs.
How many animals altogether?



- 4
- 5
- 6

Peg the Answer

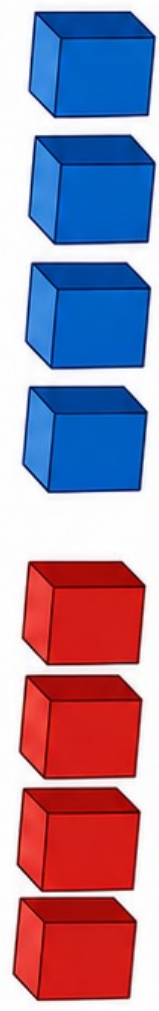
There are 7 biscuits. 2 are eaten.
How many are left?



- 5
- 6
- 9

Peg the Answer

There are 4 red blocks and 4 blue blocks.
How many blocks altogether?



- 6
- 8
- 9

Peg the Answer

There are 5 ducks. 3 swim away.
How many are left?



- 2
- 3
- 1

Peg the Answer

She finds 3 more.
How many altogether?



7

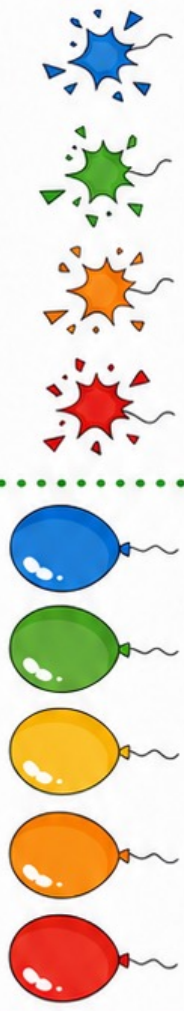
8

9

10

Peg the Answer

There are 9 balloons. 4 pop.
How many are left?



4

5

6

Peg the Answer

There are 2 horses and 6 cows.
How many animals altogether?



6

8

10

Peg the Answer

There are 10 apples. 3 are eaten.
How many are left?



6

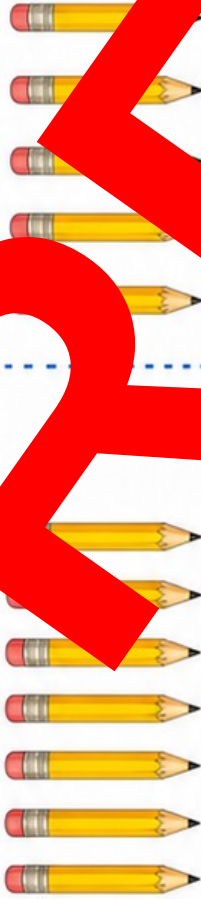
7

8

Peg the Answer

CHALLENGE TO 20

There are 7 pencils. 3 more are added.
How many pencils altogether?



11

12

13

Peg the Answer

CHALLENGE TO 20

There are 15 stars. 6 are hidden.
How many can you see?



8

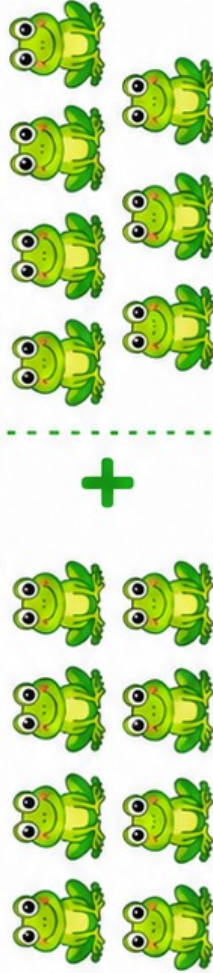
9

10

Peg the Answer

CHALLENGE TO 20

There are 8 frogs. 7 more hop over.
How many frogs altogether?



14

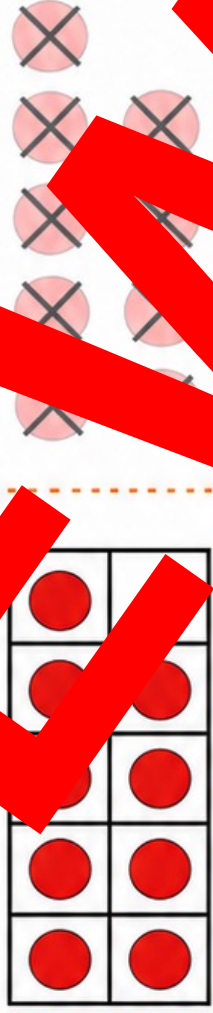
15

16

Peg the Answer

CHALLENGE TO 20

There are 8 counters. 3 are removed.
How many are left?



8

9

10

Read, Draw and Add

Name: _____

Read each story. Draw counters. Write the number sentence.

1. There are 2 birds. 3 more join. How many are there now?



DRAW COUNTERS

+

=

2. Mia has 4 shells. She finds 2 more.
How many shells altogether?



DRAW COUNTERS

+

=

3. There are 5 toy cars. 3 more arrive.
How many are there now?



DRAW COUNTERS

+

=

Read, Draw and Add

Name: _____ **ANSWERS**

Read each story. Draw counters. Write the number sentence.

1. There are 2 birds. 3 more join. How many now?



DRAW COUNTERS



2

+

3

=

2. Mia has 4 shells. She finds 2 more.
How many shells altogether?



DRAW COUNTERS



4

+

2

=

6

3. There are 5 toy cars. 3 more arrive.
How many are there now?



DRAW COUNTERS



5

+

3

=

8

Read, Draw and Take Away

Name: _____

Read each story. Draw counters. Write the number.

1. There are 7 apples. 2 are eaten.
How many are left?

DRAW COUNTERS

$$\square - \square = \square$$

2. There are 8 balloons. 3 pop.
How many are left?

DRAW COUNTERS

$$\square - \square = \square$$

3. There are 6 frogs. 4 hop away.
How many are left?

DRAW COUNTERS

$$\square - \square = \square$$

Read, Draw and Take Away

Name: ANSWERS

Read each story. Draw counters. Write the number.

1. There are 7 apples. 2 are eaten.
How many are left?

DRAW COUNTERS



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

2. There are 8 balloons. 3 pop.
How many are left?

DRAW COUNTERS



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

3. There are 6 frogs. 4 hop away.
How many are left?

DRAW COUNTERS



$$\boxed{6} - \boxed{4} = \boxed{2}$$

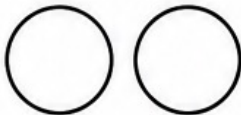
Part-Part-Whole Stories

Name: _____

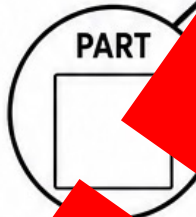
Read each story. Fill the diagram and write the number in the box.

1

There are 3 yellow counters and 2 blue counters. How many counters altogether?



+



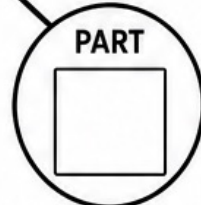
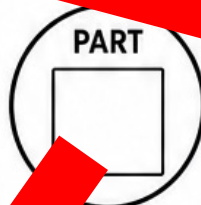
2

There are 4 dogs. 4 cats join them. How many animals altogether?



+

=



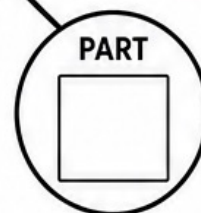
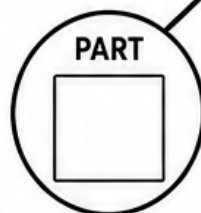
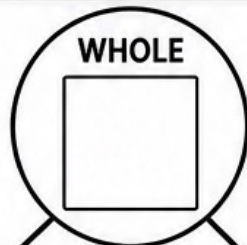
3

There are 10 birds. 3 birds fly away. How many birds are left?



-

=



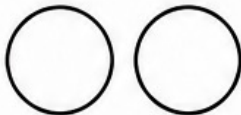
Part-Part-Whole Stories

Name: _____ **ANSWERS**

Read each story. Fill the diagram and write the number _____

1

There are 3 yellow counters and 2 blue counters. How many counters altogether?



3

+

2

5



2

There are 4 dogs. 4 cats join them. How many animals altogether?



4

+

4

=

8



3

There are 6 birds. 2 fly away. How many birds are left?



6

-

2

=

4



Match the Story

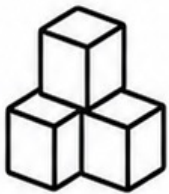
Name: _____

Draw a line from each story to its number sentence.

STORIES



There are
3 cats. 2 more
join.



There are
8 blocks. 3
fall down.



There are
4 ducks. 3 more
swim over.



There are
9 apples. 4
are eaten.

NUMBER SENTENCES

$$3 + 2 = 5$$

$$8 - 3 = 5$$

$$4 + 3 = 7$$

$$9 - 4 = 5$$

Match the Story

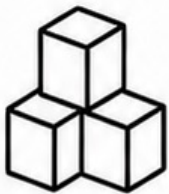
Name: **ANSWERS**

Draw a line from each story to its number sentence.

STORIES



There are
3 cats. 2 more
join.



There are
8 blocks. 3
fall down.



There are
4 ducks. 3 more
swim over.



There are
9 apples. 4
are eaten.

NUMBER SENTENCES

$$3 + 2 = 5$$

$$8 - 3 = 5$$

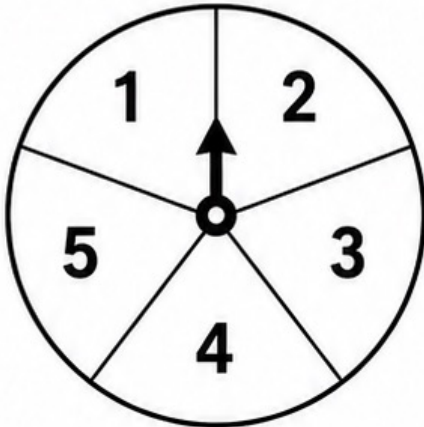
$$4 + 3 = 7$$

$$9 - 4 = 5$$

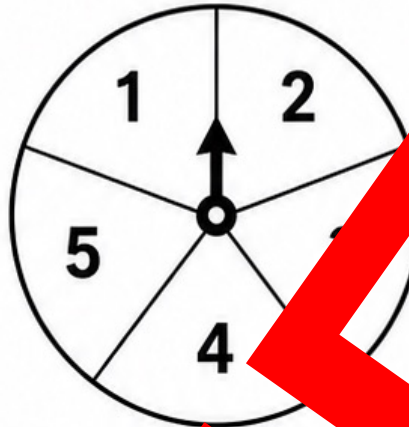
Spin and Create a Story

Name: _____

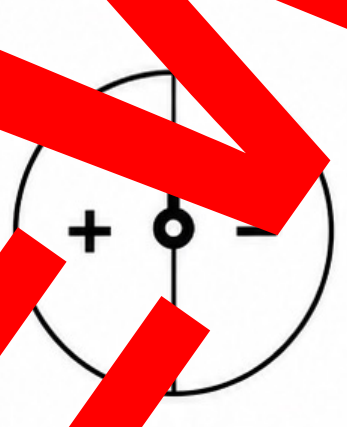
Spin two numbers and an operation. Make and solve a story problem.



NUMBER 1



NUMBER 2



OPERATION

1. SPIN

DRAW

TELL _____

WRITE

2. SPIN

DRAW

TELL _____

WRITE =

3. SPIN

DRAW

TELL _____

WRITE =

4. SPIN

DRAW

TELL _____

WRITE =

Mixed Number Stories

Name: _____

Circle + or -. Draw or use counters. Solve.

- ① There are 3 birds. 4 more arrive.
How many birds now?

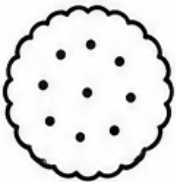


+

-

ANSWER

- ② There are 9 biscuits. 2 are eaten.
How many are left?



+

-

=

ANSWER

- ③ There are 4 red blocks and 5 blue blocks.
How many blocks together?



+

or -

=

ANSWER

- ④ There are 8 frogs. 5 hop away.
How many are left?



+

or -

=

ANSWER

Mixed Number Stories

Name: ANSWERS

Circle + or -. Draw or use counters. Solve.

- ① There are 3 birds. 4 more arrive.
How many birds now?



+

-

3

+

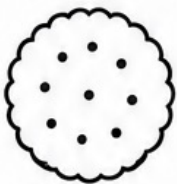
4

=

ANSWER

7

- ② There are 9 biscuits. 2 are eaten.
How many are left?



+

-

9

-

2

=

7

ANSWER

7

- ③ There are 5 red blocks and 5 blue blocks.
How many blocks together?



+

or -

5

+

5

=

10

ANSWER

10

- ④ There are 8 frogs. 5 hop away.
How many are left?



+

or -

8

-

5

=

3

ANSWER

3

Story Challenge to 20

OPTIONAL EXTENSION

Name: _____

Draw or use counters. Write the number sentence and solve.

1. Mia has 6 shells. She finds 7 more. How many shells does she have now?

2. There are 15 balloons. 6 pop. How many are left?

=

3. There are 9 birds. 8 more join. How many birds now?

=

4. There are 15 counters. 9 are removed. How many are left?

=

Story Challenge to 20

OPTIONAL EXTENSION

Name: ANSWERS

Draw or use counters. Write the number sentence and solve.

1. Mia has 6 shells. She finds 7 more. How many shells does she have now?

6

+

7

= 13

2. There are 15 balloons. 6 pop. How many are left?

15

-

6

=

9

3. There are 9 birds. 8 more join. How many birds now?

9

+

8

=

17

4. There are 18 counters. 9 are removed. How many are left?

18

-

9

=

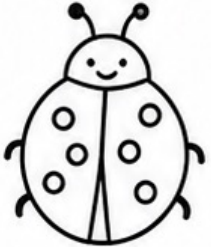
9

Number Story Check-In - Page

Name: _____

Circle ADD or TAKE AWAY. Draw counters. Solve.

- 1** There are 2 ladybirds. 3 more join.
How many are there now?



ADD



TAKE AWAY

=

DRAW COUNTERS

- 2** There are 7 toy boats. 2 sail away.
How many are left?



ADD



TAKE AWAY

=

DRAW COUNTERS

- 3** There are 5 pencils. 2 more are added.
How many pencils are there now?



ADD



TAKE AWAY

=

DRAW COUNTERS

- 4** There are 9 stars. 3 are covered.
How many stars can you see?



ADD



TAKE AWAY

=

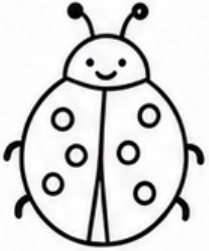
DRAW COUNTERS

Number Story Check-In - Page

Name: ANSWERS

Circle ADD or TAKE AWAY. Draw counters. Solve.

- 1** There are 2 ladybirds. 3 more join.
How many are there now?



ADD



TAKE AWAY

2

+

3

=



- 2** There are 7 toy boats. 2 sail away.
How many are left?



ADD



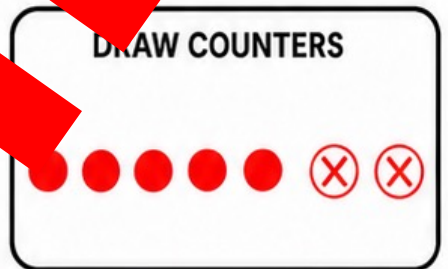
TAKE AWAY

7

-

2

5



- 3** There are 4 pencils. 4 more are added.
How many are there now?



ADD



TAKE AWAY

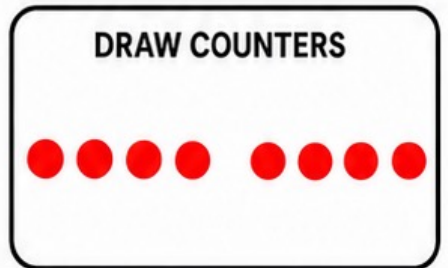
4

+

4

=

8



- 4** There are 9 stars. 3 are covered.
How many can you see?



ADD



TAKE AWAY

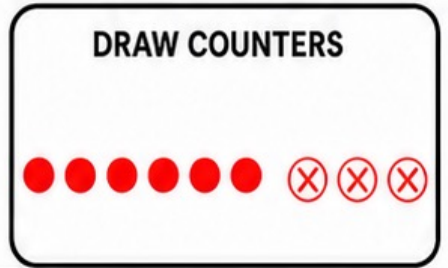
9

-

3

=

6

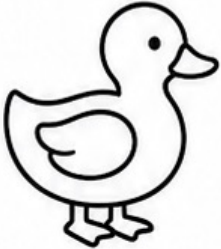


Number Story Check-In - Page

Name: _____

Show each story with a drawing and a number sentence. Write the answer.

1. There are 5 ducks. 3 more arrive. How many ducks are there now?



DRAW

ANSWER

2. There are 10 cupcakes. 4 are eaten. How many are left?



DRAW

=

ANSWER

3. There are 6 blue counters and 2 yellow counters. How many counters altogether?



DRAW

=

ANSWER

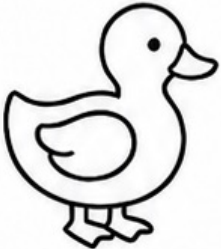
Tell how you checked one answer.

Number Story Check-In - Page

Name: ANSWERS

Show each story with a drawing and a number sentence. Write the answer.

1. There are 5 ducks. 3 more arrive. How many ducks are there now?



DRAW



ANSWER

5

+

3

=

8

2. There are 10 cupcakes. 4 are eaten. How many are left?



DRAW



ANSWER

10

-

4

=

6

6

3. There are 6 blue counters and 2 yellow counters. How many counters altogether?



DRAW



ANSWER

6

+

2

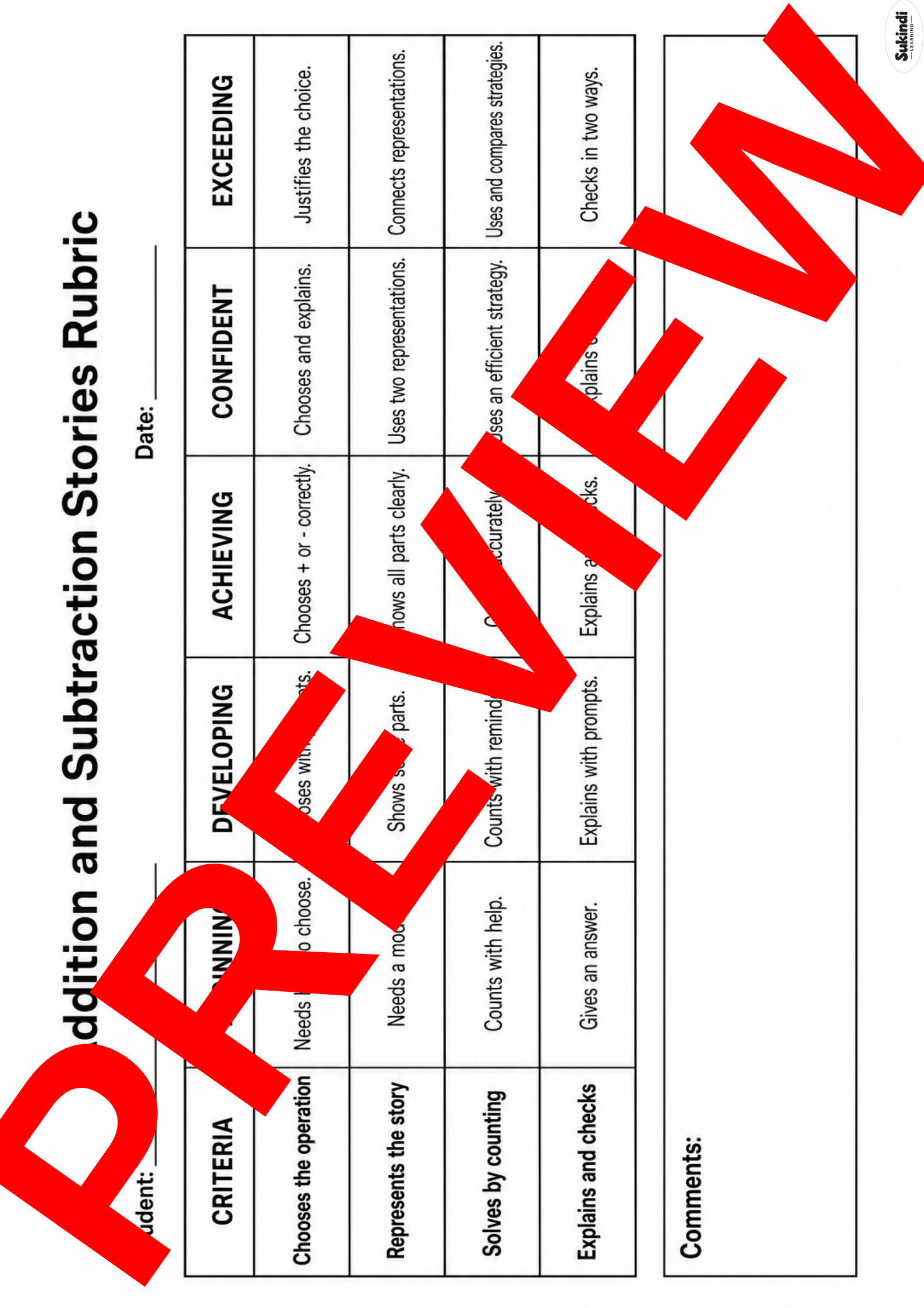
=

8

8

Tell how you checked one answer.

I counted it out and counted.



Addition and Subtraction Stories Rubric

Student: _____

Date: _____

CRITERIA	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
Chooses the operation	Needs help to choose.	Chooses with prompts.	Chooses + or - correctly.	Chooses and explains.	Justifies the choice.
Represents the story	Needs a model.	Shows some parts.	Shows all parts clearly.	Uses two representations.	Connects representations.
Solves by counting	Counts with help.	Counts with reminders.	Counts accurately.	Uses an efficient strategy.	Uses and compares strategies.
Explains and checks	Gives an answer.	Explains with prompts.	Explains and checks.	Explains clearly.	Checks in two ways.

Comments:

PREVIEW

Addition and Subtraction Stories



Learning Intention

I can represent and solve addition and subtraction stories.

Success criteria

- act it out with counters
- draw what happens
- write a number sentence
- explain why my answer is right



What Is a Number Story?

A number story is a short everyday math situation.

It has:

- a START — what we have first
- a CHANGE — what happens
- a QUESTION — what we need to find



Addition Stories

Use addition when items join or more are added.

Ask: How many altogether?

Example

2 birds + 3 birds = 5 birds



Model an Addition Story

Kai has 3 shells. He finds 2 more.
How many shells altogether?

1. Start with 3 counters.
2. Add 2 counters.
3. Count all.

= 5



Try an Addition Story

Act out each story with counters.

1. There are 2 frogs. 4 more hopped over. How many now?

2. Mia has 5 pencils. Sam gets 3 more. How many altogether?

Say the number sentence.



Part-Part-Whole

Parts are the groups we join.
The whole is the total.

PART 3 + PART 2 = WHOLE 5

3 + 2 =



Subtraction Stories

Use subtraction when items leave, or use for an item taken away.

Ask: How many are left?

Example: There are 5 apples.



Model a Subtraction Story

There are 8 birds. 3 fly away.
How many remain?

1. Start with 8 count
2. Move 3 away
3. Count the birds

$$8 - 3 = 5$$



Try a Subtraction Story

Act out each story with counters.

1. Six ducks are on a pond. Two swim away. How many remain?

2. Nine blocks are stacked. Four fall down. How many stay up?

Say the number sentence.



Add or Take Away?

Think about what changed.

ADD when groups join or more are added.

TAKE AWAY when something is removed or used.

Check: Does your answer make sense in the story?



Four Ways to Show a Story

ACT IT — move counters.

DRAW IT — sketch what happens.

MODEL IT — use a part-part-whole diagram.

WRITE IT — record a number sentence.

All four show the same story.



Mixed Guided Practice

Choose ADD or TAKE AWAY. Then represent and solve.

1. Three cats are joined by 2 dogs.
2. Eight balloons are tied up; 3 pop.
3. Four red blocks and 4 blue blocks make one group.



Review

START — What is there first?

CHANGE — What joins or leaves?

RESULT — How many now? how many are left?

Check your answer by acting it out again.

Explain your thinking aloud.





Well Done!

PRAISE



Addition and Subtraction Stories Quiz



Question 1 • Multiple Choice

There are 3 ducks. 2 more ducks join them. Which number sentence matches?

A. $3 + 2 = 5$

B. $3 - 2 = 1$

C. $2 - 3 = 1$

D. $3 + 2 = 5$



Answer 1

A. $3 + 2 = 5$

The two groups join so we add



Question 2 · True or False

Seven apples are on a plate. Two are eaten.

The matching number sentence is $7 + 2 = 9$.

True or False?



Answer 2

False

$$7 - 2 = 5$$

Two apples are taken away



Question 3 · Short Answer

Four red blocks and 3 blue blocks are joined.

How many blocks are there altogether?



Answer 3

7 blocks

$$4 + 3 = 7$$



Question 4 • Multiple Choice

Eight balloons are tied to a fence. Three pop. How many remain?

- A. 5
- B. 11
- C. 6
- D. 3



Answer 4

A. 5

$$8 - 3 = 5$$



Question 5 • True or False

A basket has 5 oranges and 4 apples.

There are 9 pieces of fruit altogether.

True or False?



Answer 5

True

$$5 + 4 = 9$$



Question 6 · Short Answer

Which operation shows objects being taken away?



Answer 6

Subtraction

Use the minus sign: -



Question 7 • Multiple Choice

The parts are 2 and 6. What is the whole?

- A. 4
- B. 6
- C. 8
- D. 12



Answer 7

C. 8

$$2 + 6 = 8$$



Question 8 · Short Answer

Nine frogs sit by a pond. Four hop away.

How many frogs remain?



Answer 8

5 frogs

$$9 - 4 = 5$$



Question 9 • Multiple Choice

Which story matches $4 + 3$?

- A. 4 cars; 3 drive away.
- B. 4 birds; 3 more arrive.
- C. 7 shells; 4 are taken.
- D. 3 blocks; 4 are taken.



Answer q

B. 4 birds; 3 more arrive.

The two groups join to make 7.



Question 10 • True or False

Six shells are collected. All 6 are put back.

Zero shells remain.

True or False?



Answer 10

True

$$6 - 6 = 0$$





Well Done!

PREFVIEW

