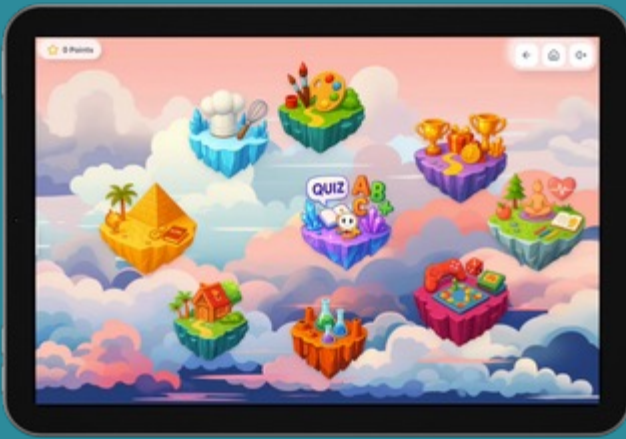


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Counting On Unit - Year 1

Table of Contents	
Presentation: Counting On	
Display & Mat: Counting-On Strategy	
Activity: Count-On Boom Cards	
Activity: Caterpillar Count-On Task Cards	
Activity: Interactive Number-Line Garden	
Game: Count-On Quest	
Worksheets: Counting-On Foundations	
Worksheets: Larger Number First	
Worksheets: Number-Line Practice	
Worksheets: Counting-On Word Problems	
Quiz: Counting On	
Assessment: Counting On Assessment	
Rubric: Counting On Unit Year 1 Rubric	





8

Counting On

Start big. Count on. Say the total.

1

Find the larger number.



2

2

Keep it in your head



+

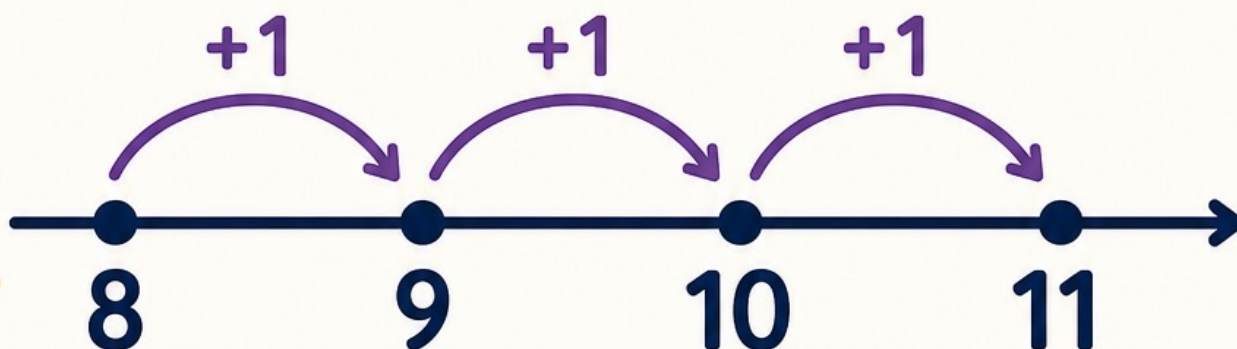
3

Count on the smaller number.



$$8 + 3 = 11$$

7





My Counting On Mat

Start big • Count on • Say the total

1

Circle the larger number.



2

Keep it in your head.

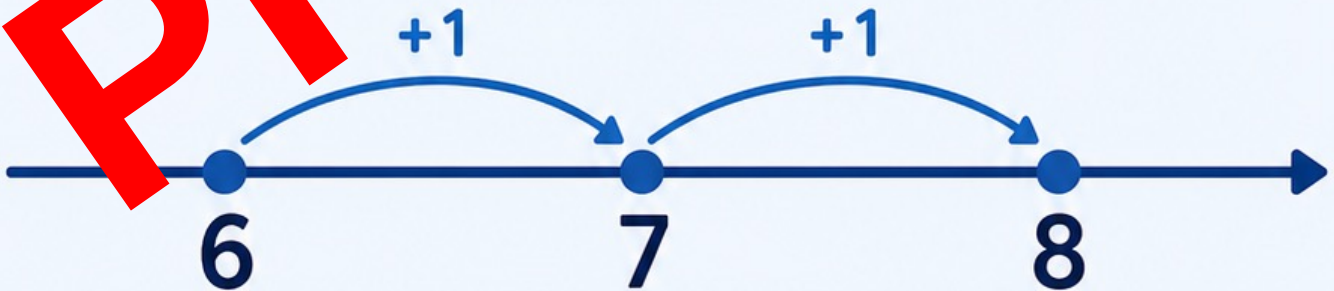


3

Count on the other number.



$$6 + 2 = 8$$



Try one: _____ + _____ = _____

Count-On Boom!



A counting-on card game

How to play

- 1 Place the cards in a bag and mix them.
- 2 Take turns to draw one card.
- 3 Say the missing numbers to complete the sequence.
- 4 Keep the card if your sequence is correct.
- 5 Put the card back if you need another try.
- 6 Draw a BOOM! and return your collected cards.
- 7 The player with the most cards at the end wins.



Count forwards carefully
from the number you see.



0, , ,



1, , ,



2, , ,



3, , ,



4, , ,



5, , ,

6, , ,



7, , ,



8, , ,



9, , ,



10, , ,



11, , ,



BOOM!



BOOM!

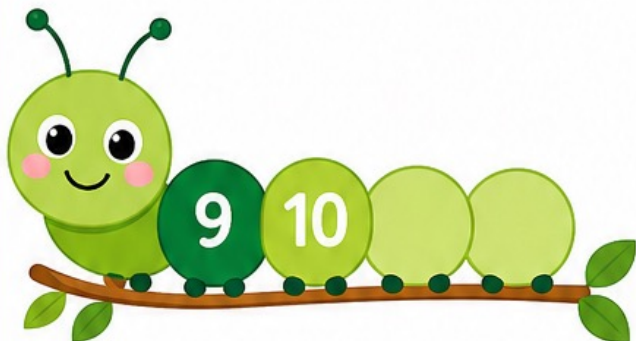


12, , 13, , 14, , 15, , 16, , 17, , 

BOOM!

BOOM!

$$9 + 1 = \underline{\quad}$$



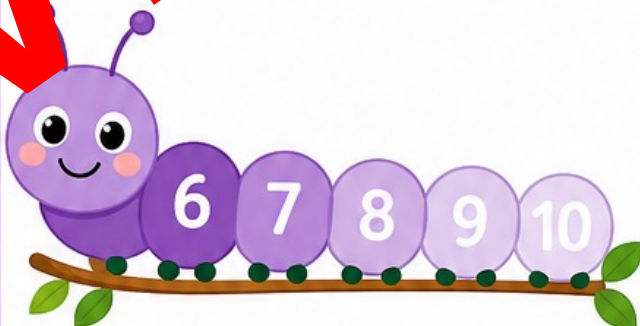
$$8 + 2 = \underline{\quad}$$



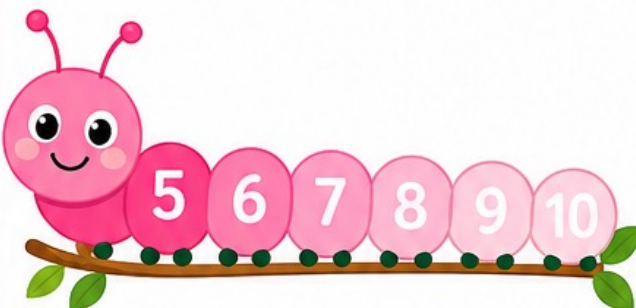
$$7 + 3 = \underline{\quad}$$



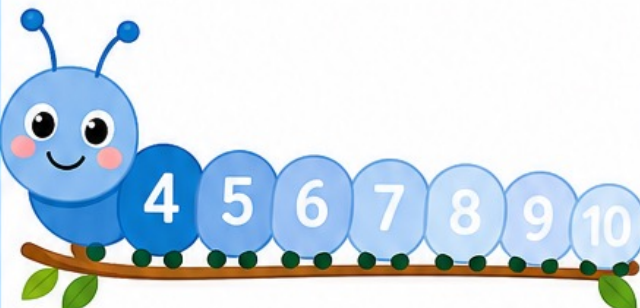
$$6 + 4 = \underline{\quad}$$



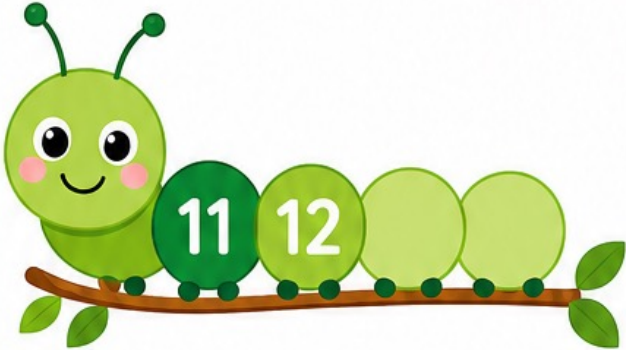
$$5 + 5 = \underline{\quad}$$



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



$$11 + 1 = \underline{\quad}$$



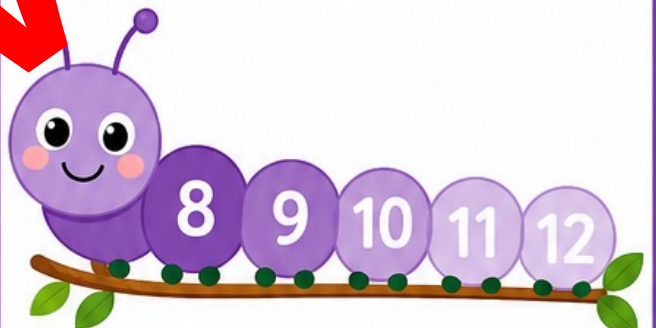
$$10 + 2 = \underline{\quad}$$



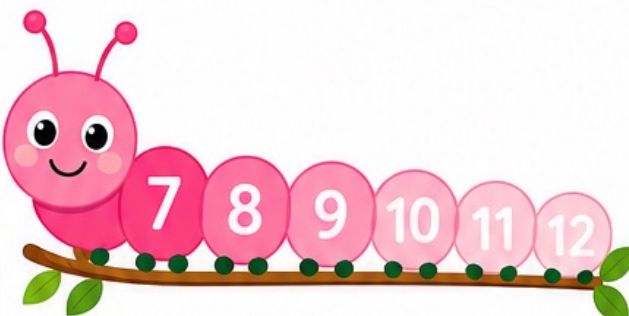
$$9 + 3 = \underline{\quad}$$



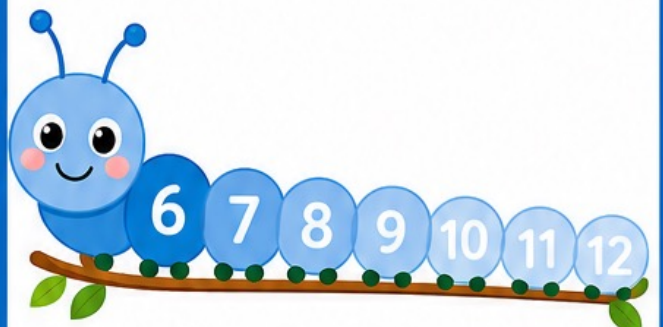
$$8 + 4 = \underline{\quad}$$



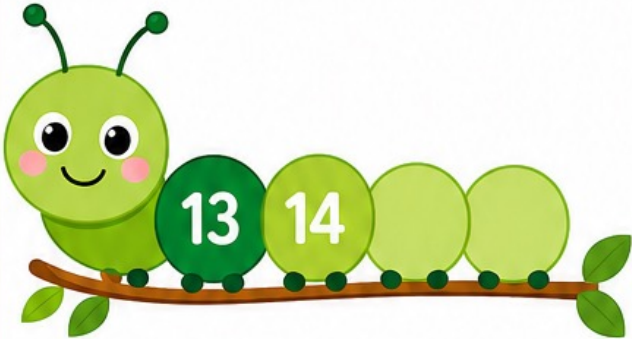
$$7 + 5 = \underline{\quad}$$



$$6 + 6 = \underline{\quad}$$



$$13 + 1 = \underline{\quad}$$



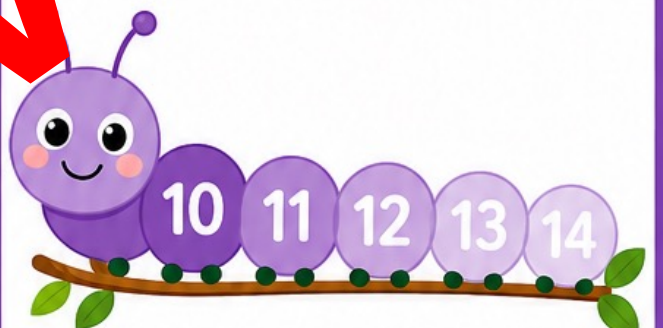
$$12 + 2 = \underline{\quad}$$



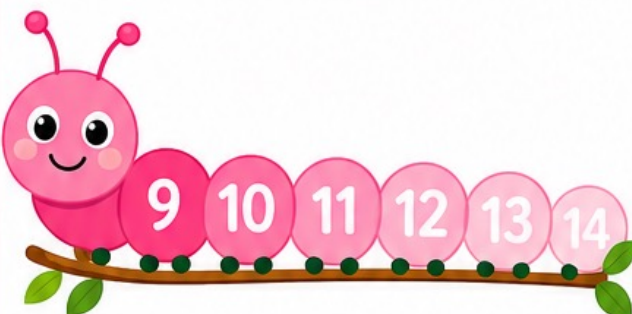
$$11 + 3 = \underline{\quad}$$



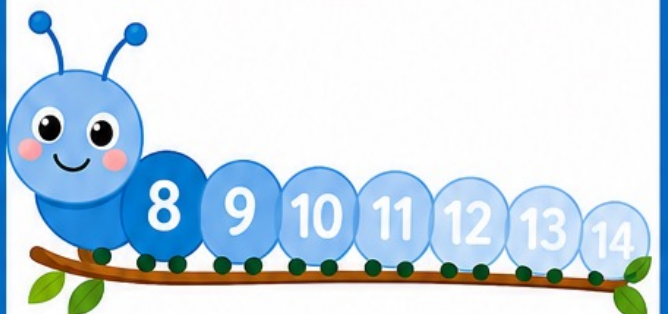
$$10 + 4 = \underline{\quad}$$



$$9 + 5 = \underline{\quad}$$



$$8 + 6 = \underline{\quad}$$



Interactive Number-Line Garden

Count on from 0 to 20

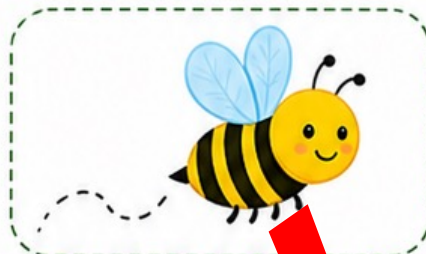
START
HERE

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Number-Line Garden Counters

Cut out the counters. Move one space for each count-on step.

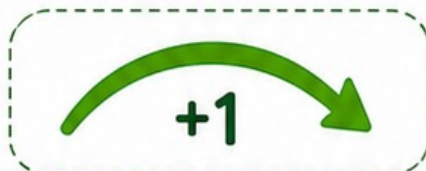
Bee counters



Butterfly counters



Hop arrows



Count-on Quest

Start big. Count on. Reach the finish!



Count-On Quest

How to Play and Record

How to Play:

1. Play with a partner.
2. Roll a die and move.
3. Solve the space by starting with the larger number and counting on.
4. Record your thinking below.
5. The first player to reach FINISH wins!

Name: _____

My Count-On Record

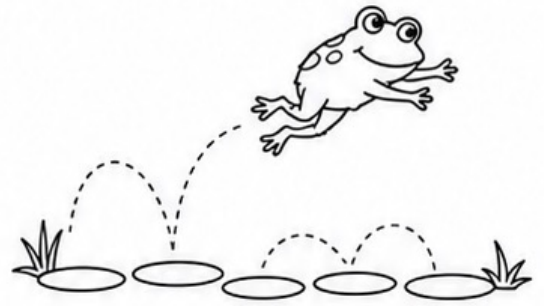
Turn	Start Number	Count On	Total
1			
2			
3			
4			
5			
6			
7			
8			

Tell your partner: I started at ____, counted on ____, and landed on ____.

Counting On: Number Sequences

Name: _____

Write the next numbers. Count on by ones.



1. 2, _____, _____, _____

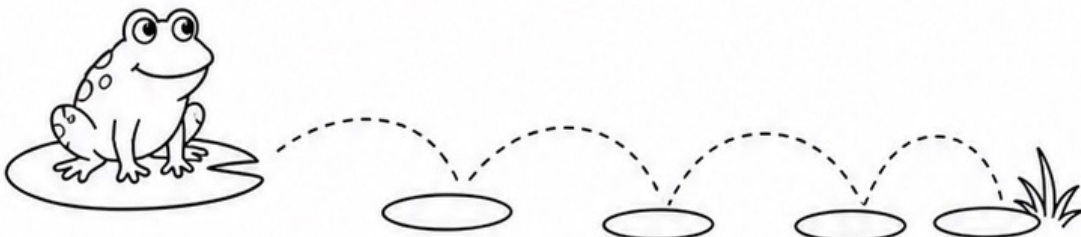
2. 5, _____, _____, _____

3. 8, _____, _____, _____

4. 11, _____, _____, _____

5. 14, _____, _____, _____

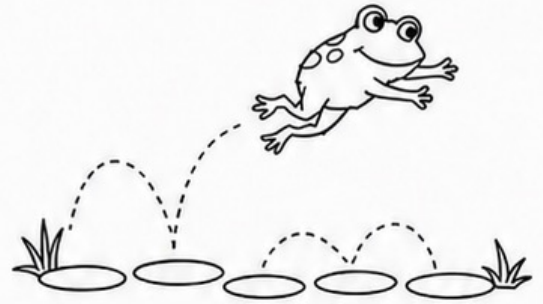
6. 17, _____, _____, 20



Counting On: Number Sequences

Name: ANSWERS

Write the next numbers. Count on by ones.



1. 2, 3, 4, 5

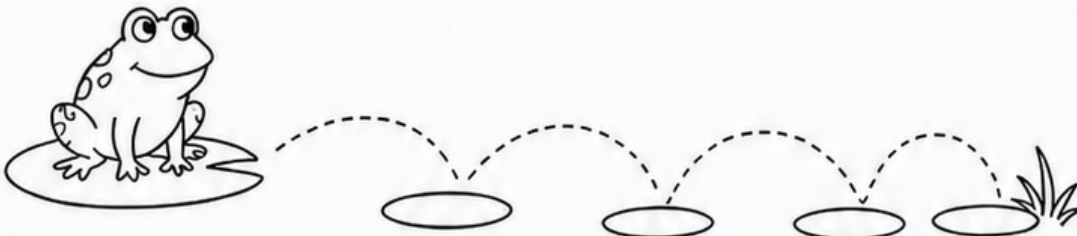
2. 5, 6, 7, 8

3. 8, 9, 10, 11

4. 11, 12, 13, 14

5. 14, 15, 16, 17

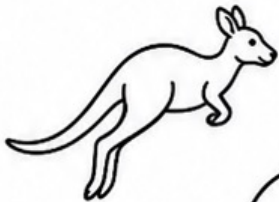
6. 17, 18, 19, 20



Counting On 1 and 2

Name: _____

Start with the larger number. Count on and write the total.



1. $6 + 1 =$ _____

2. $8 + 1 =$ _____

3. $11 + 1 =$ _____

4. $14 + 1 =$ _____

5. $5 + 2 =$ _____

6. $7 + 2 =$ _____

7. $10 + 2 =$ _____

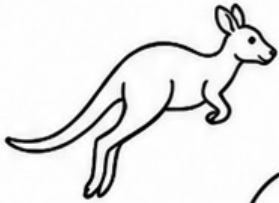
8. $15 + 2 =$ _____

Think: Say the big number,
then count on.

Counting On 1 and 2

Name: ANSWERS

Start with the larger number. Count on and write the total.



1. $6 + 1 = \underline{7}$

2. $8 + 1 = \underline{9}$

3. $11 + 1 = \underline{12}$

4. $14 + 1 = \underline{15}$

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

6. $7 + 2 = \underline{9}$

7. $10 + 2 = \underline{12}$

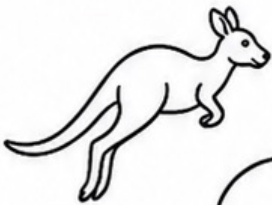
8. $15 + 2 = \underline{17}$

Think: Say the big number,
then count on.

Counting On 2 and 3

Name: _____

Start with the larger number. Count on and write the total.



4 5 6



8 9 10 11

1. $4 + 2 =$ _____

2. $9 + 2 =$ _____

3. $13 + 2 =$ _____

4. $16 + 2 =$ _____

5. $7 + 3 =$ _____

6. $8 + 3 =$ _____

7. $12 + 3 =$ _____

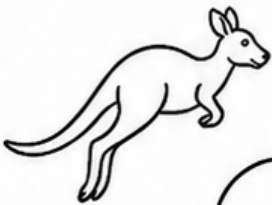
8. $14 + 3 =$ _____

Think: Say the big number,
then count on.

Counting On 2 and 3

Name: ANSWERS

Start with the larger number. Count on and write the total.



1. $4 + 2 = \underline{6}$

2. $9 + 2 = \underline{11}$

3. $13 + 2 = \underline{15}$

4. $16 + 2 = \underline{18}$

5. $5 + 3 = \underline{8}$

6. $8 + 3 = \underline{11}$

7. $12 + 3 = \underline{15}$

8. $14 + 3 = \underline{17}$

Think: Say the big number,
then count on.

Find the Larger Number



Name: _____

Circle the larger addend. Start there, count on, and solve.

1. $3 + 9 = \underline{\quad}$

2. $12 + 2 = \underline{\quad}$

3. $4 + 11 = \underline{\quad}$

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

5. $9 + 15 = \underline{\quad}$

6. $10 + 5 = \underline{\quad}$

Start big. Count on
the smaller number.



Find the Larger Number



Name: ANSWERS

Circle the larger addend. Start there, count on, and solve.

1. $3 + 9 = 12$

2. $12 + 2 = 14$

3. $4 + 11 = 15$

4. $7 + 3 = 10$

5. $2 + 15 = 17$

6. $10 + 5 = 15$

Start big. Count on
the smaller number.



Put the Larger Number First

Name: _____

Rewrite each addition fact with the larger number first. Then solve.

1. $2 + 8$

Larger first: _____ + _____ = _____

2. $3 + 14$

Larger first: _____ + _____ = _____

3. $5 + 12$

Larger first: _____ + _____ = _____

4. $4 + 15$

Larger first: _____ + _____ = _____

5. $6 + 11$

Larger first: _____ + _____ = _____

6. $1 + 18$

Larger first: _____ + _____ = _____

Turn it around. The total stays the same.

Put the Larger Number First

Name: ANSWERS

Rewrite each addition fact with the larger number first. Then solve.

1. $2 + 8$

Larger first: $\underline{8} + \underline{2} = \underline{10}$

2. $3 + 14$

Larger first: $\underline{14} + \underline{3} = \underline{17}$

3. $5 + 12$

Larger first: $\underline{12} + \underline{5} = \underline{17}$

4. $4 + 15$

Larger first: $\underline{15} + \underline{4} = \underline{19}$

5. $6 + 11$

Larger first: $\underline{11} + \underline{6} = \underline{17}$

6. $1 + 18$

Larger first: $\underline{18} + \underline{1} = \underline{19}$

Turn it around. The total stays the same.

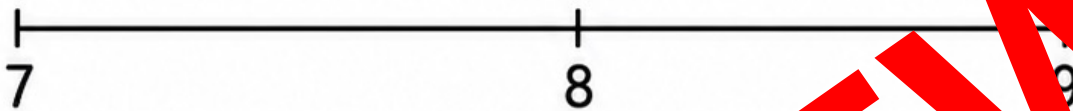
Counting On with Number Lines



Name: _____

Start at the larger number. Draw the hops. Write the total.

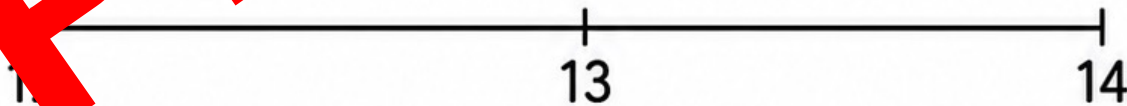
1. $7 + 2 = \underline{\quad}$



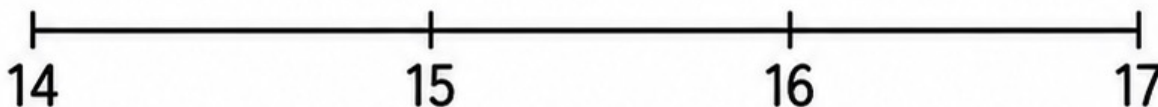
2. $9 + 3 = \underline{\quad}$



3. $12 + 2 = \underline{\quad}$



4. $14 + 3 = \underline{\quad}$



One hop means count on 1.



Counting On with Number Lines



Name: ANSWERS

Start at the larger number. Draw the hops. Write the total.

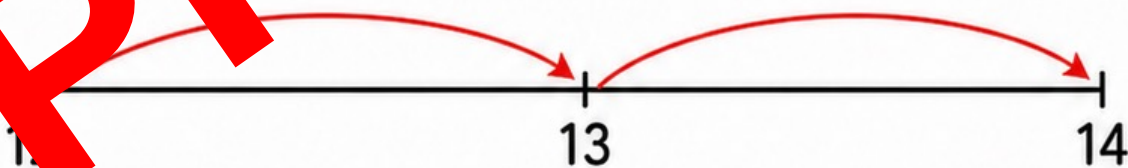
1. $7 + 2 = \underline{9}$



2. $9 + 3 = \underline{12}$



3. $12 + 2 = \underline{14}$



4. $14 + 3 = \underline{17}$



One hop means count on 1.



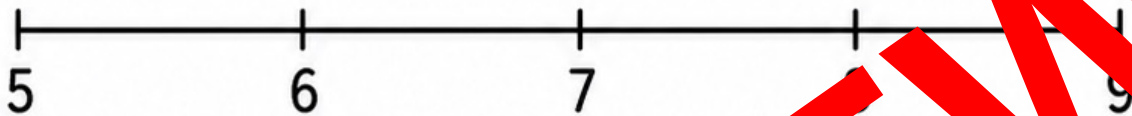
Counting On with Number Lines 2



Name: _____

Start at the larger number. Draw the hops. Write the total.

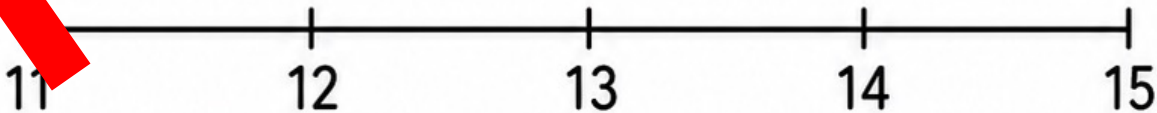
1. $5 + 4 = \underline{\quad}$



2. $8 + 4 = \underline{\quad}$



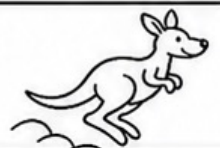
3. $11 + 4 = \underline{\quad}$



4. $13 + 5 = \underline{\quad}$



One hop means count on 1.



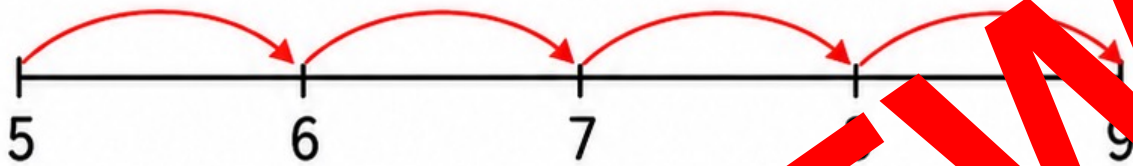
Counting On with Number Lines 2



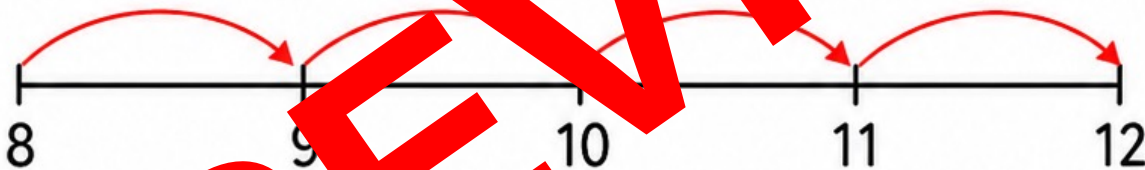
Name: ANSWERS

Start at the larger number. Draw the hops. Write the total.

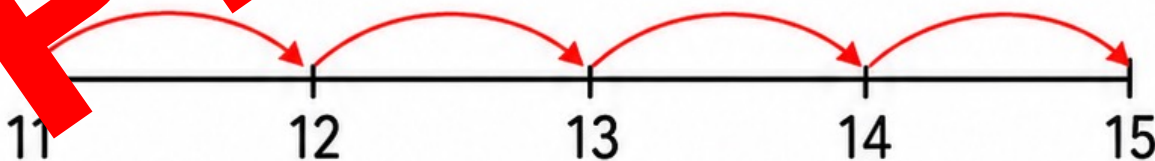
1. $5 + 4 = \underline{9}$



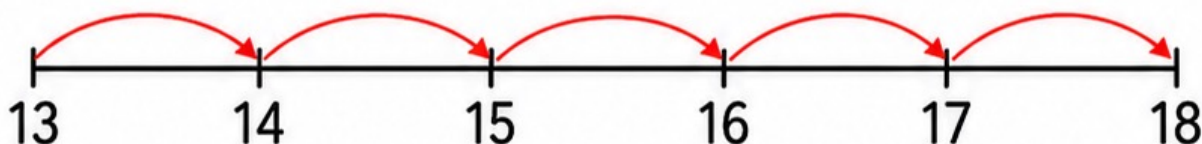
2. $8 + 4 = \underline{12}$



3. $11 + 4 = \underline{15}$



4. $13 + 5 = \underline{18}$



One hop means count on 1.



Counting On Word Problems 1

Name: _____

Read each problem. Write a number sentence and solve by counting on.

1. Mia has 8 shells. She finds 3 more.
How many shells does she have now?



Number sentence: _____ + _____ = _____

Answer: _____

2. There are 12 birds on a fence.
Then 2 more birds land.
How many birds are there now?



Number sentence: _____ + _____ = _____

Answer: _____

3. Noah has 10 cars. He gets 4 more.
How many cars does he have now?



Number sentence: _____ + _____ = _____

Answer: _____

4. A bowl has 10 apples. Then 5 more
apples are added. How many apples
are there now?



Number sentence: _____ + _____ = _____

Answer: _____

Counting On Word Problems 1

Name: ANSWERS

Read each problem. Write a number sentence and solve by counting on.

1. Mia has 8 shells. She finds 3 more.
How many shells does she have now?



Number sentence: 8 + 3 = 11

Answer: 11 shells

2. There are 12 birds on a fence.
Then 2 more birds land.
How many birds are there now?



Number sentence: 12 + 2 = 14

Answer: 14 birds

3. Noah has 7 toy cars. He gets 4 more.
How many toy cars does he have now?



Number sentence: 7 + 4 = 11

Answer: 11 toy cars

4. A bowl has 10 apples. Then 5 more
apples are added. How many apples
are there now?



Number sentence: 10 + 5 = 15

Answer: 15 apples

Counting On Word Problems 2

Name: _____

Read each problem. Write a number sentence and solve by counting on.

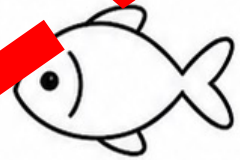
1. Lily has 9 pencils. Her teacher gives her 2 more.
How many pencils does Lily have now?



Number sentence: ____ + ____ = ____

Answer: _____

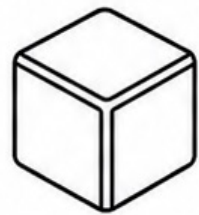
2. There are 13 fish in a pond.
Then 3 more fish join them.
How many fish are there now?



Number sentence: ____ + ____ = ____

Answer: _____

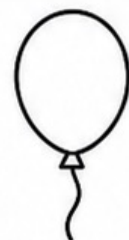
3. A tower has 6 blocks.
Sam adds 5 more blocks.
How many blocks are in the tower now?



Number sentence: ____ + ____ = ____

Answer: _____

4. There are 11 balloons.
Then 4 more balloons are added.
How many balloons are there now?



Number sentence: ____ + ____ = ____

Answer: _____

Counting On Word Problems 2

Name: ANSWERS

Read each problem. Write a number sentence and solve by counting on.

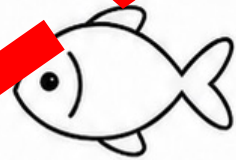
1. Lily has 9 pencils. Her teacher gives her 2 more.
How many pencils does Lily have now?



Number sentence: 9 + 2 = 11

Answer: 11 pencils

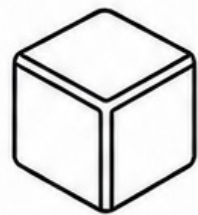
2. There are 13 fish in a pond.
Then 3 more fish join them.
How many fish are there now?



Number sentence: 13 + 3 = 16

Answer: 16 fish

3. A tower has 6 blocks.
Sam adds 5 more blocks.
How many blocks are in the tower now?



Number sentence: 6 + 5 = 11

Answer: 11 blocks

4. There are 11 balloons.
Then 4 more balloons are added.
How many balloons are there now?



Number sentence: 11 + 4 = 15

Answer: 15 balloons



Counting On Assessment 1



Name: _____

Date: _____

Show what you know. Work carefully.

A. Continue the sequence

1. 6, _____, _____, _____

2. 14, _____, _____, 17

B. Circle the larger addend

3. 4 + 13

4. 12 + 2

5. 1 + 16

C. Count on and solve

6. $8 + 2 =$ _____

7. $11 + 3 =$ _____

8. $7 + 5 =$ _____

9. $14 + 4 =$ _____

Teacher score: _____ / 9





Counting On Assessment 1



Name: ANSWERS

Date: _____

Show what you know. Work carefully.

A. Continue the sequence

1. 6, 7, 8, 9

2. 14, 15, 16, 17

B. Circle the larger addend

3. 4 + 13

4. 12 + 2

5. 10 + 16

C. Count on and solve

6. 8 + 2 = 10

7. 11 + 3 = 14

8. 7 + 5 = 12

9. 14 + 4 = 18

Teacher score: ____ / 9



Counting On Assessment 2

Name: _____

Date: _____

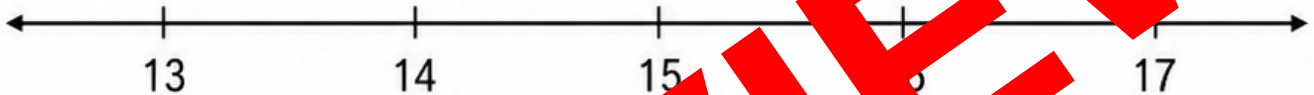
Show your counting-on strategy.

A. Use the number line

1. $10 + 3 = \underline{\quad}$



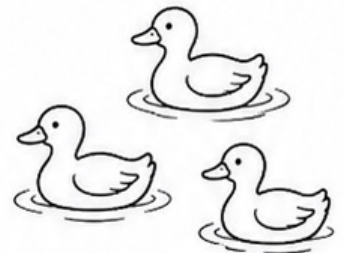
2. $13 + 4 = \underline{\quad}$



B. Solve the story

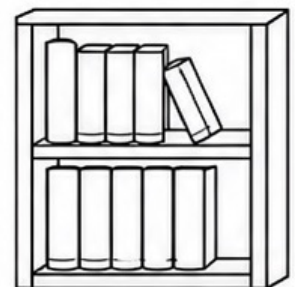
3. There are 9 ducks on a pond. Then 3 more ducks arrive.
How many ducks are there now?

Number sentence: $\underline{\quad} + \underline{\quad} = \underline{\quad}$



4. A shelf has 12 books. The teacher adds 5 more books.
How many books are on the shelf now?

Number sentence: $\underline{\quad} + \underline{\quad} = \underline{\quad}$



C. Explain your thinking

5. For $5 + 13$, which number should you start with? Explain how you count on.

Teacher score: $\underline{\quad}$ / 5

Counting On Assessment 2

Name: ANSWERS

Date: _____

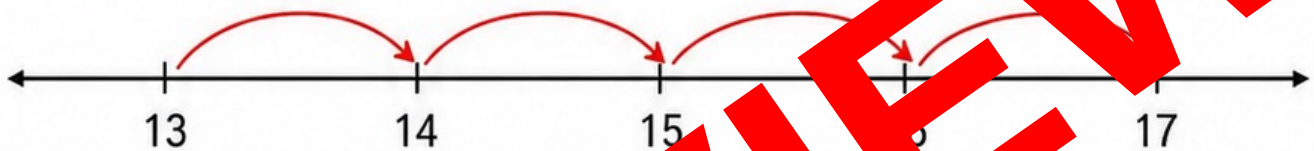
Show your counting-on strategy.

A. Use the number line

1. $10 + 3 = \underline{13}$



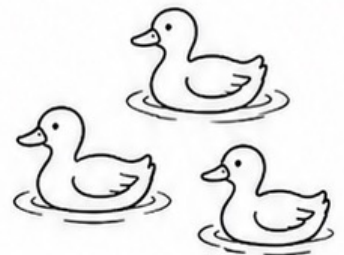
2. $13 + 4 = \underline{17}$



B. Solve the story

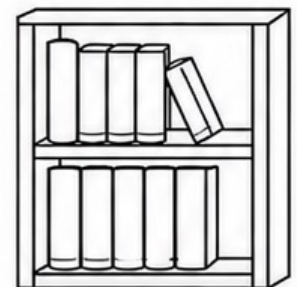
3. There are 9 ducks on a pond. Then 3 more ducks arrive.
How many ducks are there now?

Number sentence: $\underline{9} + \underline{3} = \underline{12}$



4. A shelf has 12 books. The teacher adds 5 more books.
How many books are on the shelf now?

Number sentence: $\underline{12} + \underline{5} = \underline{17}$



C. Explain your thinking

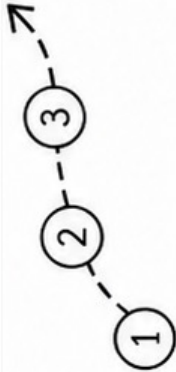
5. For $5 + 13$, which number should you start with? Explain how you count on.

Start with 13 because it is larger.

Count on five: 14, 15, 16, 17, 18.

The total is 18.

Teacher score: ____ / 5



Counting On Unit Year 1 Rubric

Student: _____ Date: _____ Teacher: _____

Criteria	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
Forward number sequence	Needs support.	Counts on with prompts.	Continues accurately.	Continues and checks independently.	Creates and explains sequences.
Selects efficient starting addend	Needs support to choose.	Sometimes chooses the larger addend.	Chooses the larger addend.	Chooses and explains the choice.	Applies the choice flexibly.
Counts on accurately	Counts with support.	Counts on 1 with prompts.	Counts on accurately.	Counts on efficiently.	Uses counting on flexibly.
Solves addition within 20	Needs concrete support.	Solves simple facts with prompts.	Solves facts within 20.	Solves accurately and efficiently.	Applies the strategy in new problems.
Explains or represents strategy	Needs support to show thinking.	Shows part of the thinking.	Shows a clear strategy.	Explains and represents clearly.	Compares helpful strategies.

Overall level: _____

Next step: _____

Counting On



Learning Intention

We are learning to count by starting with the larger number and counting on.



Success Criteria

I can

- find the larger addend.
- count on one number at a time.
- solve addition facts within 20.
- explain my strategy.



What Is Addition?

Addition joins two amounts to find a total.

8 means 8 and 3 more.



Why Count On?

Counting every object can be slow. Counting on starts with a number we already know and adds only the extra amount.



The Counting-On Strategy

1. Find the larger addend.
2. Say that number.
3. Count on the smaller addend, one number at a time.



Let's Model $9 + 3$

Start at 9.

Count on three, 10, 11.

So, $9 + 3 = 11$.



Choose the Best Start

For $4 + 9$, which number should the sum start with?

4 or 9?



Start at 9

9 is the larger addend.

Count on four: 10, 11, 12, 13.

$$\text{So, } 4 + 9 = 13.$$



Count On 1

Start at 2.

One hop, 3.

$$12 + 1 = 13.$$



Count On 2

Start at 7.

Two hops to 9.

$$7 + 2 = 9.$$



Count On 3

Start at 14.

Three hops. 14, 15, 16, 17.

$$14 + 3 = 17.$$



What Comes Next?

Count on by ones.

13, 14, __, __



Check the Sequence

1, 14, 15, 16

We counted on two more numbers.



Try It: $6 + 3$

Start at the larger addend.

Count on three.

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



Check It

Start at 6.

Count 7, 9.

$$6 + 3 = 9$$



Try It: $4 + 12$

Which addend is larger?
Start there and count on four.

$$4 + 12 = \underline{\quad}$$



Check It

Start at 2.

Count: 1, 14, 5, 16.

$$4 + 12 = 16$$



Story Problem

There are 13 birds in a tree. Two more birds arrive.

Start at 13 and count on two.

$13 + 2 = 15$ birds.



Think, Pair, Share

Explain to a partner

- which number you start with
- how many numbers you count on
- how you know the total



Remember

Start with.

Count on the number number.

Try each next number once.

Check that your total makes sense.





Well Done!

Counting on Quiz



Question 1

True or false?

When adding $4 + 9$ it is efficient to start at 9.



Answer 1

True.

9 is the larger number, so start at 9 and count on four.



Question 2

Which number should you start with for 5×2 ?

A. 5

B. 7

C. 12

D. 17



Answer 2

C. 12

is the larger addend.



Question 3

Complete the number sequence:

14, __, __, __



Answer ?

15, 16, 17



Question 14

What is $10 + 2$?

A. 10

B. 11

C. 12

D. 13



Answer 11

B. 11

Start at 9 and count on: 10, 11.



Question 5

True or false?

For 3 + 4, start at 3 and count on eight.



Answer 5

False

Start counting and count on three: 9, 10, 11.



Question 6

Use counting on to solve:

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



Answer c

10

Start at 7 and count on: 8, 9, 10.



Question 7

Which number sentence matches “start at 15 and count on 2”?

A. $15 + 2$

B. $2 + 2$

C. $15 + 5$

D. $12 + 5$



Answer 3

15 +

15, 16, 17.



Question 3

There are 10 shells. Four more are found. How many shells are there now?



Answer 8

she

$$10 + 4 = 14$$



Question 1

What is $13 + 5$?

- A. 17
- B. 18
- C. 19
- D. 20



Answer a

C. 19

Start at 13 and count on six.



Question 10

True or false?

$$8 + 1 = 9$$



Answer is

True.

Start at 8 and count on one: 9.





Well Done!