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Count on Subtraction - Year 2

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COUNT ON TO FIND THE DIFFERENCE



1. Start at the smaller number.



2. Count up to the larger number.

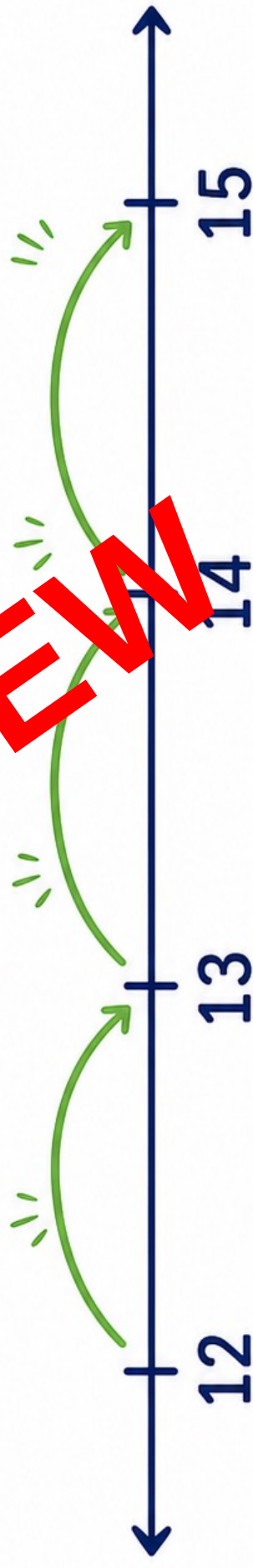


3. Count each jump.



4. The jumps are the difference.

$$15 - 12 = 3$$

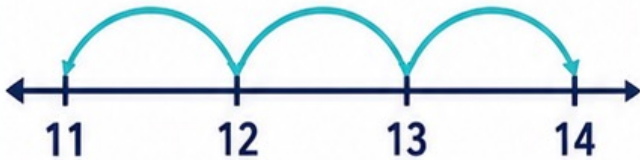


Check: $12 + 3 = 15$

COUNT ON

Start small.
Count up.
Count the jumps.

$$14 - 11 = 3$$



COUNT ON

Start small.
Count up.
Count the jumps.

$$23 - 19 = 4$$



COUNT ON

Start small.
Count up.
Count the jumps.

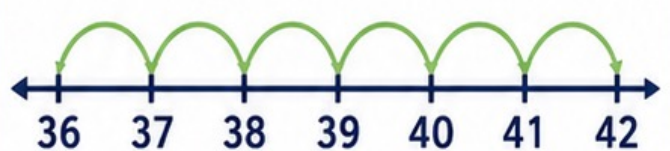
$$31 - 27 = 4$$



COUNT ON

Start small.
Count up.
Count the jumps.

$$42 - 36 = 6$$



COUNT-ON PATH



FINISH

COUNT-ON PATH CARDS



12 - 9



15 - 11



18 - 13



20 - 16



23 - 18



26 - 21



30 - 24



32 - 25



35 - 27



41 - 33



46 - 39



50 - 42



PREVIEW



DIFFERENCE DETECTIVE



Match each equation to its difference card.



$$12 - 10$$



$$14 - 11$$



$$18 - 14$$



$$21 - 16$$



$$25 - 19$$



$$32 - 25$$



$$38 - 30$$



$$47 - 38$$



PREVIEW

DIFFERENCE DETECTIVE - DIFFERENCE CARDS

2



3



4



5



6



7



8



9



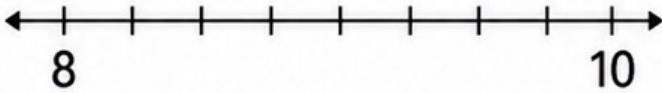
PREVIEW

SMALL STEPS TO 20

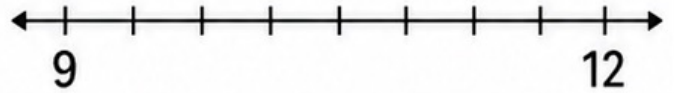
Name: _____

Start at the smaller number. Draw jumps to the larger number, then write the difference.

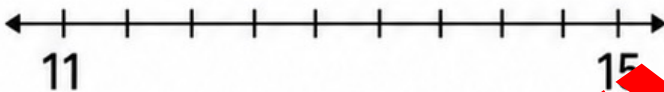
1. $10 - 8 =$



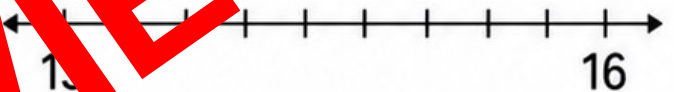
2. $12 - 9 =$



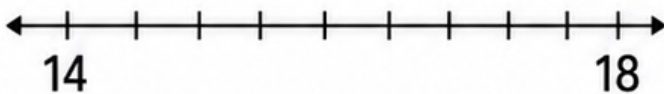
3. $15 - 11 =$



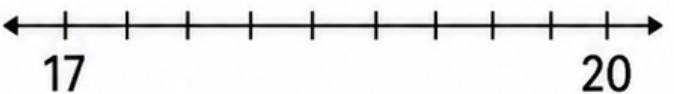
4. $16 - 13 =$



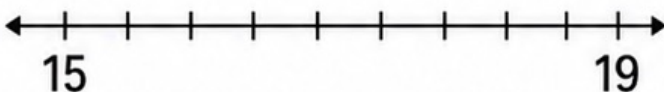
5. $18 - 14 =$



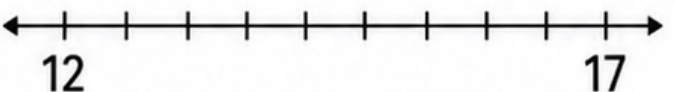
6. $20 - 17 =$



7. $19 - 15 =$



8. $17 - 12 =$



PREVIEW

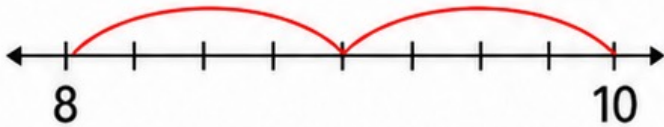
SMALL STEPS TO 20

Name: ANSWERS

Start at the smaller number. Draw jumps to the larger number, then write the difference.

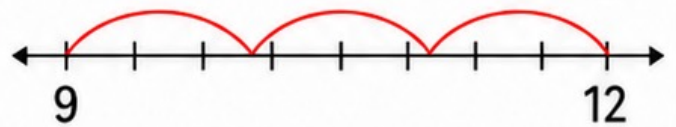
1. $10 - 8 =$

2



2. $12 - 9 =$

3



3. $15 - 11 =$

4



4. $16 - 13 =$

3



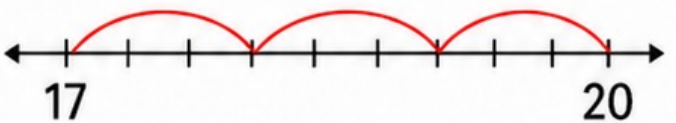
5. $18 - 14 =$

4



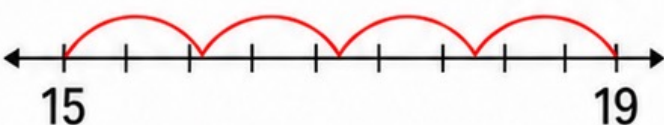
6. $20 - 17 =$

3



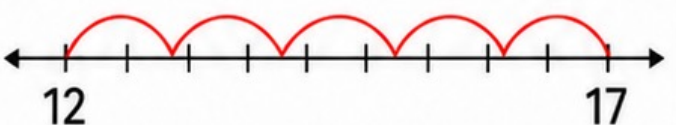
7. $19 - 15 =$

4



8. $17 - 12 =$

5



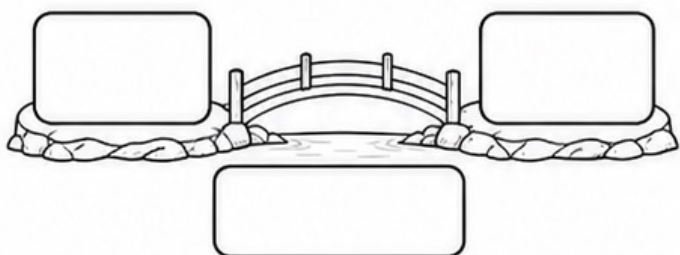
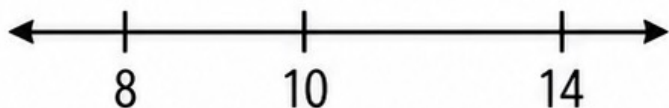
BRIDGE THROUGH 10

Name: _____

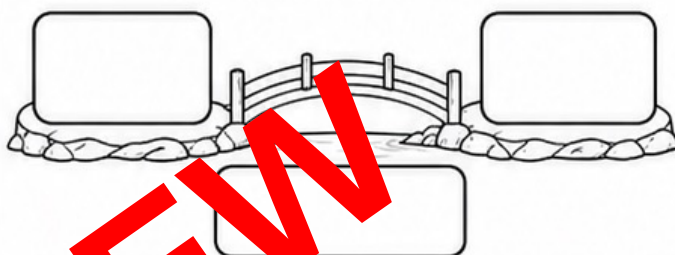
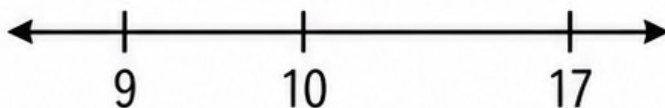


Jump to the next ten,
then jump to the larger number.
Add the jumps.

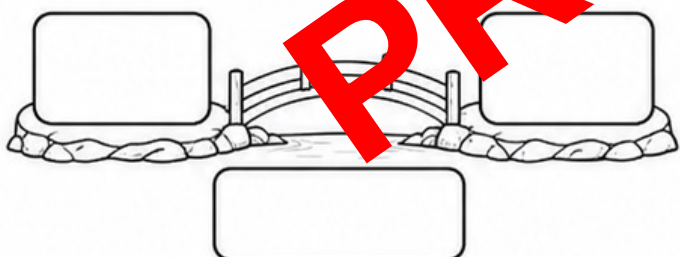
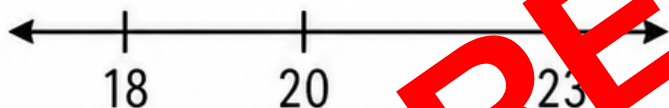
1. $14 - 8 =$



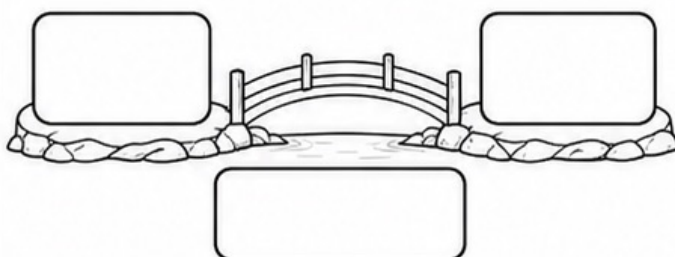
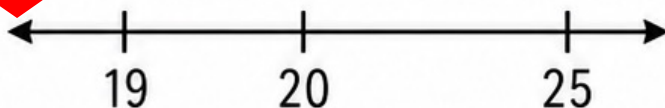
2. $17 - 9 =$



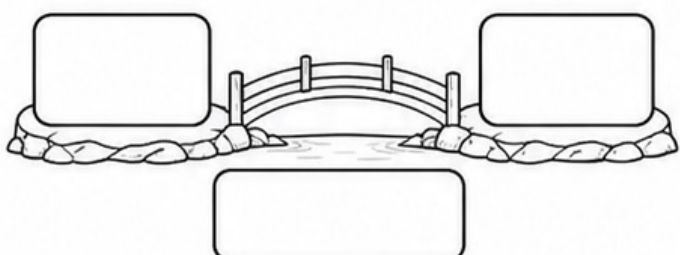
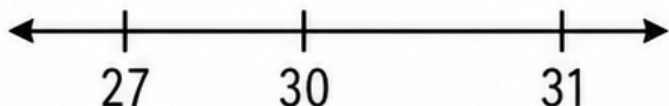
3. $23 - 18 =$



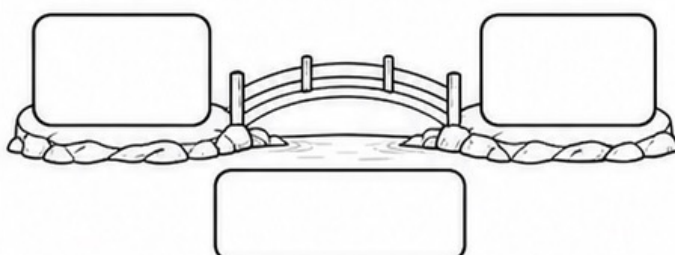
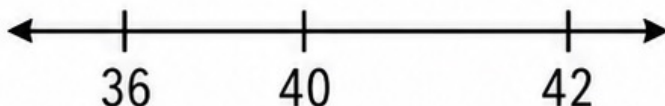
4. $25 - 19 =$



5. $31 - 27 =$



6. $42 - 36 =$



PREVIEW

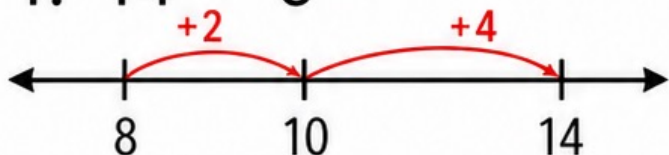
BRIDGE THROUGH 10

Name: _____ **ANSWERS**



Jump to the next ten,
then jump to the larger number.
Add the jumps.

1. $14 - 8 =$

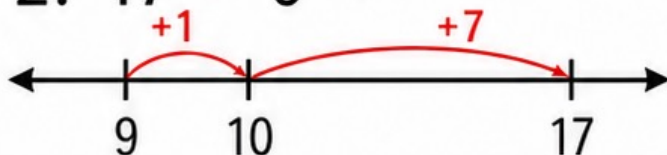


2

4

6

2. $17 - 9 =$



1

7

8

3. $23 - 18 =$

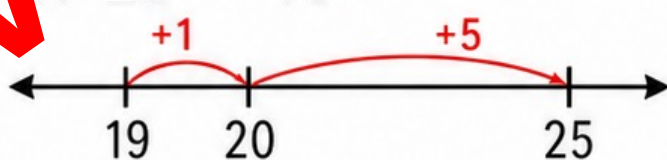


2

3

5

4. $25 - 19 =$



1

5

6

5. $31 - 27 =$



3

1

4

6. $42 - 36 =$



4

2

6

MISSING PART PUZZLES

Name: _____

Count on from the known part to the whole. Write the missing part.

13	
9	

18	
12	

21	
15	

24	
17	

30	
22	

35	
29	

40	
33	

46	
38	

MISSING PART PUZZLES

Name: **ANSWERS**

Count on from the known part to the whole. Write the missing part.

13		
9		4

18		
12		6

21		
15		6

24		
17		7

30		
22		8

35		
29		6

40		
33		7

46		
38		8

TEN-FRAME DIFFERENCES

Name: _____



Build the larger number in the frames. Cross out the smaller number. Write the difference.

$9 - 6 = \square$

$10 - 7 = \square$

$13 - 9 = \square$

$15 - 11 = \square$

$16 - 12 = \square$

$18 - 13 = \square$

$20 - 14 = \square$

$20 - 17 = \square$

PREVIEW

TEN-FRAME DIFFERENCES

Name: **ANSWERS**



Build the larger number in the frames. Cross out the smaller number. Write the difference.

$$9 - 6 = \boxed{3}$$

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

$$13 - 9 = \boxed{4}$$

$$15 - 11 = \boxed{4}$$

$$16 - 12 = \boxed{4}$$

$$18 - 13 = \boxed{5}$$

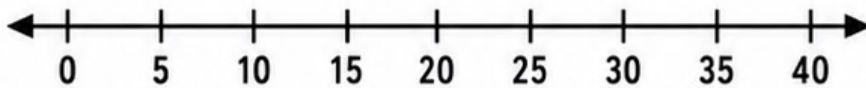
$$20 - 14 = \boxed{6}$$

$$20 - 17 = \boxed{3}$$

PREVIEW

COUNT ON MATCH

Name: _____



Solve each equation. Cut out the answer tiles and glue each one beside its matching equation.

$10 - 9 =$

$12 - 10 =$

$14 - 11 =$

$17 - 13 =$

$21 - 16 =$

$24 - 18 =$

$32 - 25 =$

$38 - 30 =$



6

2

8

4

1

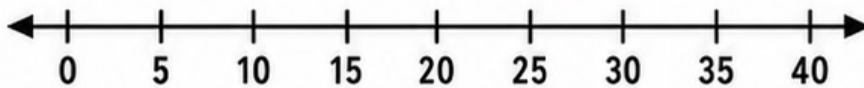
7

3

5

COUNT ON MATCH

Name: **ANSWERS**



Solve each equation. Cut out the answer tiles and glue each one beside its matching equation.

$10 - 9 =$

1

$12 - 10 =$

2

$14 - 11 =$

3

$17 - 13 =$

4

$21 - 16 =$

5

$24 - 18 =$

6

$32 - 25 =$

7

$38 - 30 =$

8



6

2

8

4

1

7

3

5

STORY DIFFERENCES

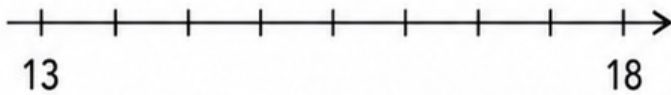
Name: _____

Write a subtraction number sentence. Count on to find the difference. Show your jumps.

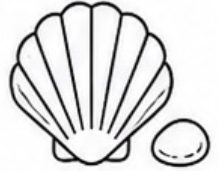
1. Mia has 18 red kites and 13 blue kites. How many more red kites are there?



_____ - _____ = _____



2. A tray holds 24 shells and 17 pebbles. How many more shells are there?



_____ - _____ = _____



3. There are 31 books. 23 are borrowed. How many remain?



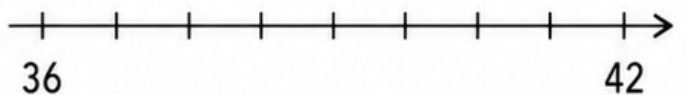
_____ - _____ = _____



4. Nani has 42 stickers and gives away 36. How many remain?



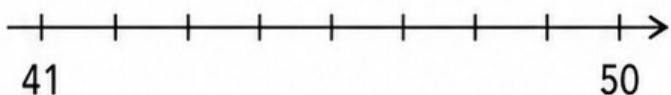
_____ - _____ = _____



5. A party has 50 balloons. 41 are blue. How many are not blue?



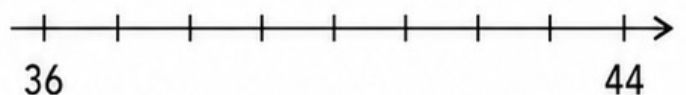
_____ - _____ = _____



6. A team has 36 points and needs 44 points. How many more points are needed?



_____ - _____ = _____

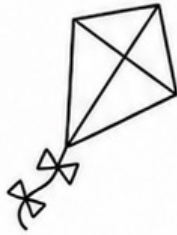


STORY DIFFERENCES

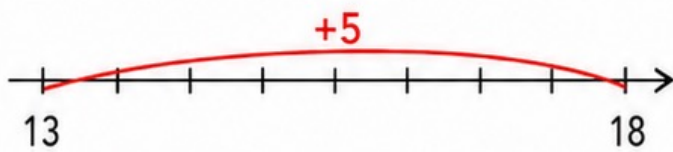
Name: **ANSWERS**

Write a subtraction number sentence. Count on to find the difference. Show your jumps.

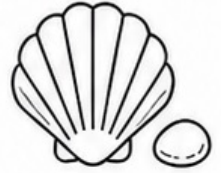
1. Mia has 18 red kites and 13 blue kites. How many more red kites are there?



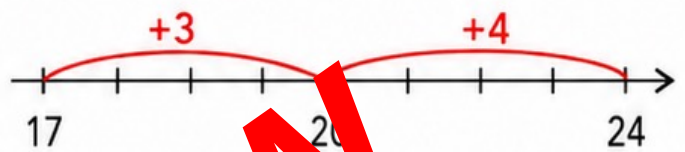
$$\underline{18} - \underline{13} = \underline{5}$$



2. A tray holds 24 shells and 17 pebbles. How many more shells are there?



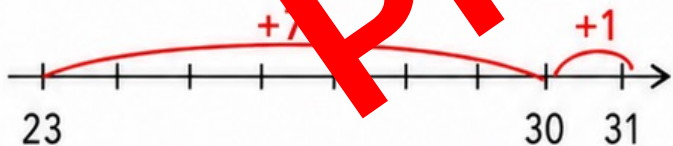
$$\underline{24} - \underline{17} = \underline{7}$$



3. There are 31 books. 23 are borrowed. How many remain?



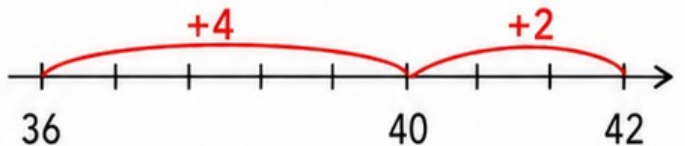
$$\underline{31} - \underline{23} = \underline{8}$$



4. Nani has 42 stickers and gives away 36. How many remain?



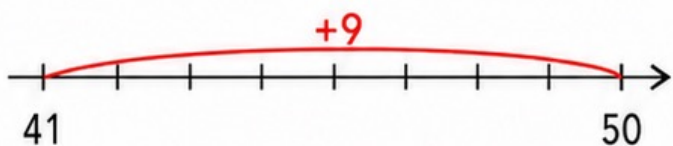
$$\underline{42} - \underline{36} = \underline{6}$$



5. A party has 50 balloons. 41 are blue. How many are not blue?



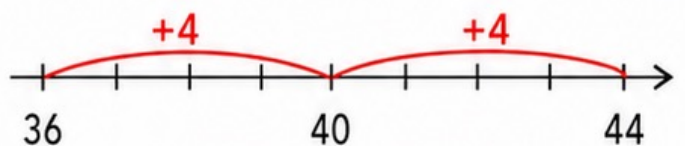
$$\underline{50} - \underline{41} = \underline{9}$$



6. A team has 36 points and needs 44 points. How many more points are needed?



$$\underline{44} - \underline{36} = \underline{8}$$



COUNT ON SUBTRACTION CHECK-UP - PAGE 1

Name: _____

Date: _____

A. Find the difference.

1. $13 - 9 =$

5. $31 - 27 =$

2. $16 - 11 =$

6. $38 - 32 =$

3. $22 - 18 =$

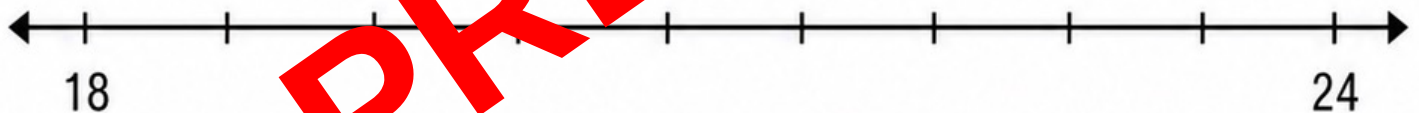
7. $44 - 37 =$

4. $25 - 19 =$

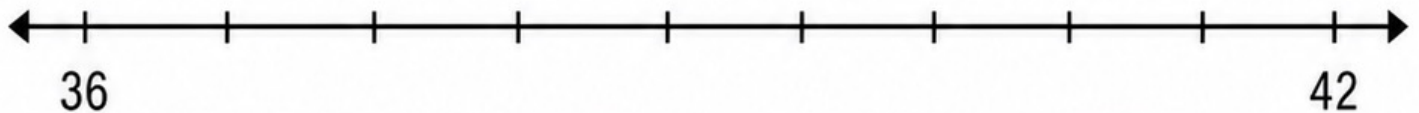
8. $50 - 43 =$

B. Show the jumps.

1. $24 - 18 =$



2. $42 - 36 =$



C. Find the missing part.

1. $17 - \square = 12$

2. $29 - \square = 23$

COUNT ON SUBTRACTION CHECK-UP - PAGE 1

Name: ANSWERS

Date: _____

A. Find the difference.

1. $13 - 9 =$ 4

5. $31 - 27 =$ 4

2. $16 - 11 =$ 5

6. $38 - 32 =$ 6

3. $22 - 18 =$ 4

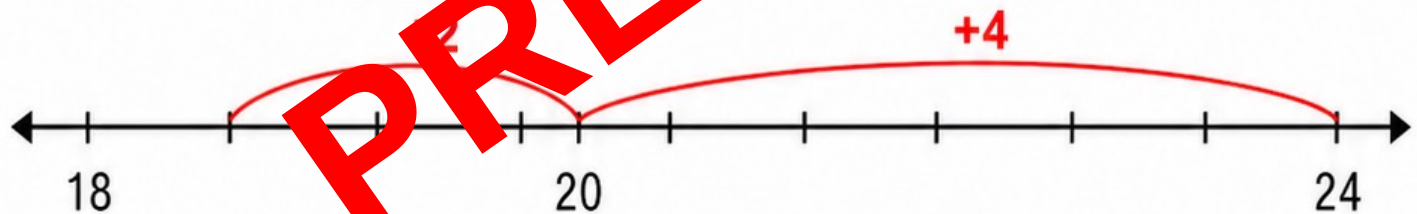
7. $44 - 37 =$ 7

4. $25 - 19 =$ 6

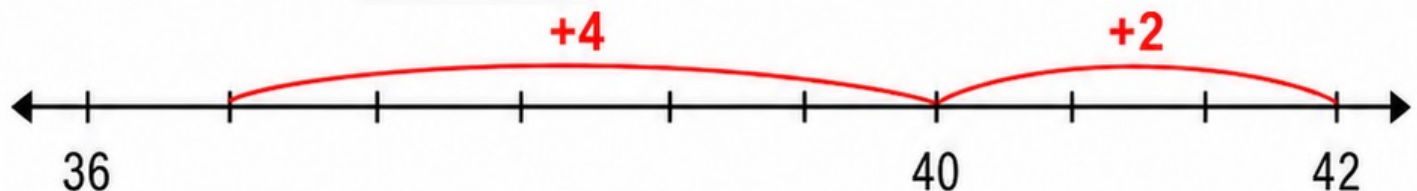
8. $50 - 42 =$ 8

B. Show the jumps.

1. $24 - 18 =$ 6



2. $42 - 36 =$ 6



C. Find the missing part.

1. $17 -$ 5 $= 12$

2. $29 -$ 6 $= 23$



COUNT ON SUBTRACTION CHECK-UP - PAGE 2

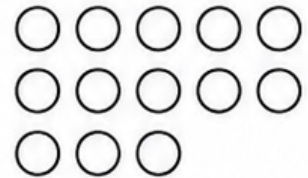
Name: _____

Date: _____

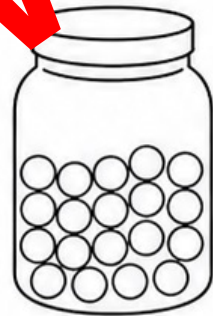


D. Solve the story problems.

1. Luca has 35 counters and Ava has 28.
How many more counters does Luca have?



2. A jar held 46 beads. 39 were used.
How many remain?



E. Choose and explain.

Which is more efficient for $51 - 48$: count on or count back? Explain why.

F. Check with addition.

Solve $32 - 25$, then complete $25 + \square = 32$.

$$25 + \square = 32$$





COUNT ON SUBTRACTION CHECK-UP - PAGE 2

Name: ANSWERS

Date: _____

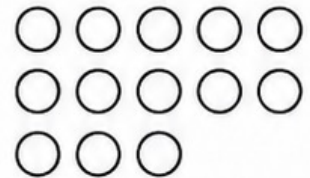


D. Solve the story problems.

1. Luca has 35 counters and Ava has 28.
How many more counters does Luca have?

$$35 - 28 = 7$$

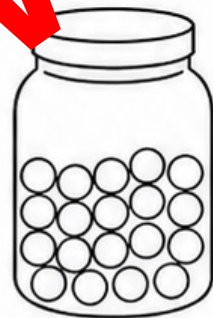
$$28 \rightarrow 30 (+2) \rightarrow 35 (+5)$$



2. A jar held 46 beads. 39 were used.
How many remain?

$$46 - 39 = 7$$

$$39 \rightarrow 40 (+1) \rightarrow 46 (+6)$$



E. Choose and explain.

Which is more efficient for $51 - 48$: count on or count back? Explain why.

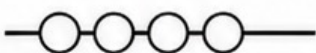
Count on, because the numbers are close and it takes only 3 jumps.

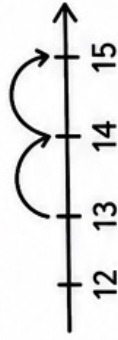
F. Check with addition.

Solve $32 - 25$, then complete $25 + \square = 32$.

$$32 - 25 = 7$$

$$25 + \boxed{7} = 32$$





COUNT ON SUBTRACTION YEAR 2 RUBRIC



	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
Identifies the smaller and larger numbers	Needs help to identify both numbers.	Identifies one number with prompts.	Identifies the smaller and larger numbers.	Identifies them quickly and explains their roles.	Connects the numbers to part-part-whole relationships.
Counts on accurately	Needs step-by-step support.	Counts on with prompts; may miss jumps.	Counts on accurately for familiar facts.	Counts efficiently across a ten.	Chooses efficient jumps and checks accuracy.
Represents jumps and number sentences	Needs help to record thinking.	Shows some jumps or a partial number sentence.	Shows clear jumps and a correct number sentence.	Uses clear, efficient representations.	Uses more than one representation and connects them.
Solves difference and missing-part problems	Solves a few with support.	Solves simple difference problems with prompts.	Solves difference and missing-part problems accurately.	Solves varied two-digit problems independently.	Solves unfamiliar problems and justifies the strategy.
Explains and checks the strategy	Gives little explanation or check.	Explains a step with prompts.	Explains steps and checks with addition.	Uses precise maths language and a correct check.	Compares strategies and justifies efficiency.

Count on Subtraction



Learning Goal

Find the difference by counting on.
Show your jumps on a number line.
Check the answer with addition.



What Is the Difference?

The difference is the gap between two numbers.
Subtraction can ask: How much more is needed?



The Count-On Steps

1. Start at the smaller number.
2. Count up to the larger number.
3. Count the jumps.
4. Record the difference.



Worked Example

$$15 - 12 = ?$$

$$12 \rightarrow 13 \rightarrow 14 \rightarrow 15$$

$$\text{Three jumps of } 1 \rightarrow 15 - 12 = 3.$$



Bridge Through a Friendly Ten

$$24 - 18 = ?$$

18 → 20 is 2 jumps.

20 → 24 is 4 jumps.

2 + 4 = 6, so $24 - 18 = 6$.



Count On Mentally

For close numbers, say the next number aloud.
Count each step until you reach the larger number.
You do not need to count backwards.



When Is Count On Efficient?

Count on when the numbers are close together.

For $32 - 29$, count 30, 31, only 2 big jumps.

That is faster than the slow count-back.



Guided Practice

13 - 9 = ?

Start at 9. End at 13.

How many jumps?

Answer.



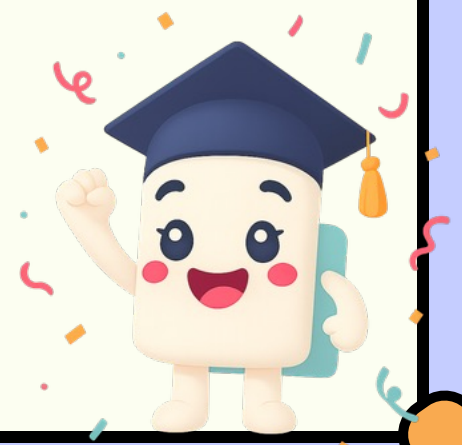
Bridge Through 20

$$22 - 1 = ?$$

17 → 20 is 3 jumps.

20 → 22 is 2 jumps.

Answer.



Missing-Part Thinking

$$16 - ? = 11$$

Think: $11 + \text{?} = 16$.

Count on from 11 to 16.

The missing part is 5.



Story Problem

There are 24 shells and 18 pebbles.
How many more shells are there?
Count on from 18 to 24.
Answer: 6 more shells.



Explain and Check

Write the subtraction equation.

Write the related addition equation.

Explain your jump in one clear sentence.



Review

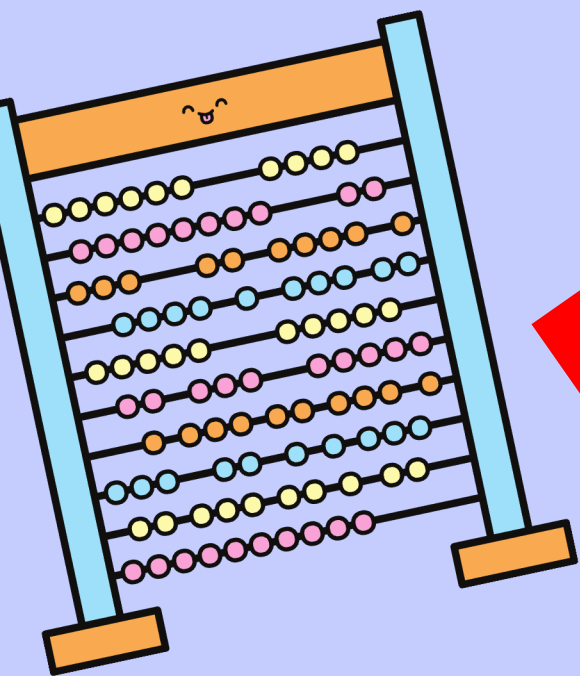
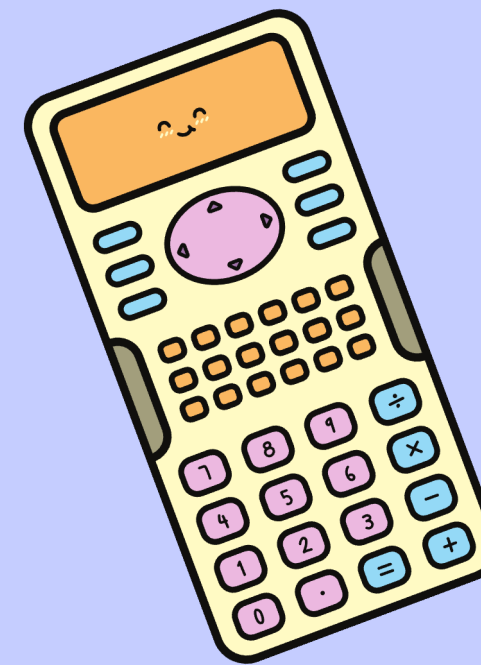
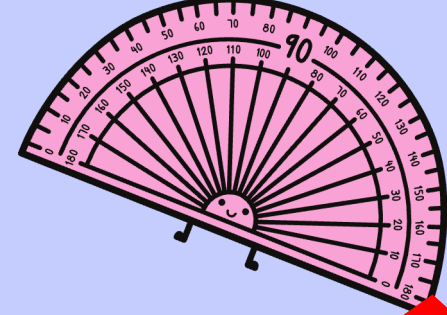
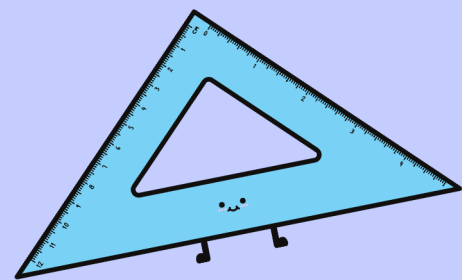
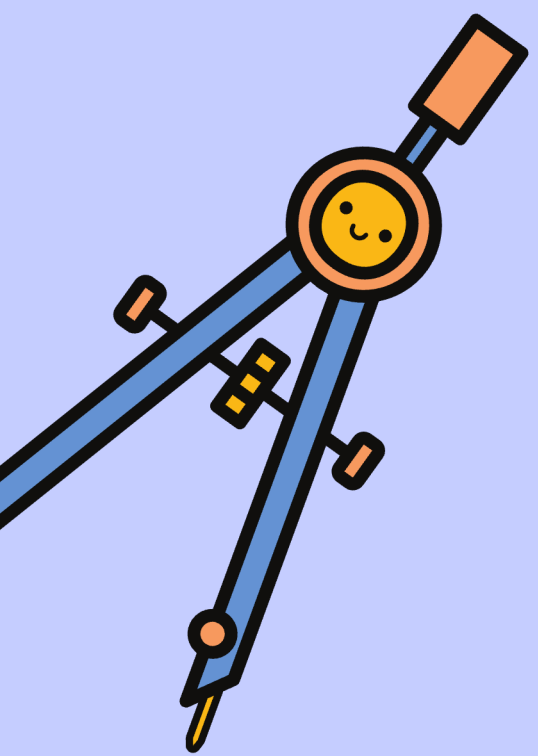
Start with the smaller number.

Finish at the larger number.

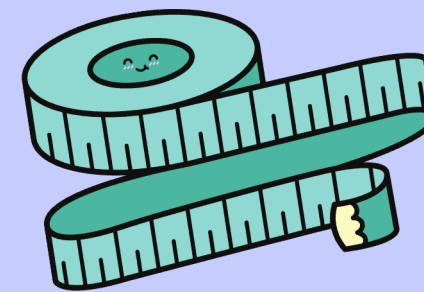
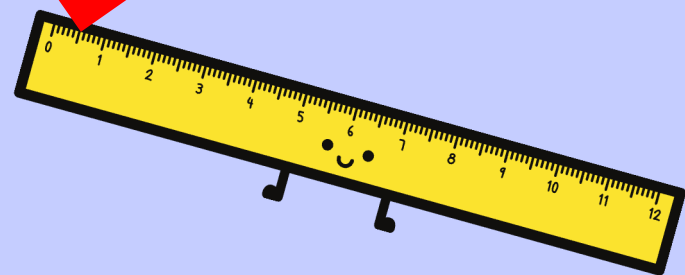
The number of jumps is the difference.

Check by adding the difference to the smaller number.





PREVIEW



Count on Subtraction Quiz



Question 1

True or False?

Count on starts at the smaller number and ends at the larger number.



Answer 1

True

Start at the smaller number, then count each jump until you reach the larger number.



Question 2

$$14 - 1 = ?$$

A. 2 B. 3 C. 4 D. 5



Answer 2

B.

Count $11 \rightarrow 12 \rightarrow 13 \rightarrow 14$



Question 3

$$18 - 15 = ?$$

Show or explain your work in your math journal.



Answer 3

5

Count on from 13 to 18: five jumps.



Question 4

How many jumps are there in 19 to 42?

A. 4 B. 5 C. 6 D. 7



Answer 4

B. ...
20, 21, 22, 23, 24. ...e jum,



Question 5

True or False?

20 – 26

PREVIEW



Answer 5

False

Count on: $2 \rightarrow 27 \rightarrow 28 \rightarrow 29 \rightarrow 30$.

The difference is 4.



Question 6

$$42 - 3 = ?$$

Use a friendly ten to help.



Answer 6

5
37 $\rightarrow$ 40 is 3 jumps, then 40 $\rightarrow$ 42 is 2 jumps.



Question 7

$$27 - ? = 1$$

A. 4 B. 5 C. 26 D. 28



Answer 7

C. 6

Think: $21 + 6 = 27$.



Question 8

There are 35 green beads and 10 blue beads.
How many more green beads are there?



Answer 8

7 more green beads
Count on from 28 to 35



Question 9

Which strategy is most efficient for 51×182 ?

- A. Count on
- B. Count every object
- C. Skip count by tens
- D. Double 51



Answer 9

A. Count on

48 $\rightarrow$ 49 $\rightarrow$ 50 $\rightarrow$ 51 three jumps.



Question 10

$$46 - 3 = ?$$

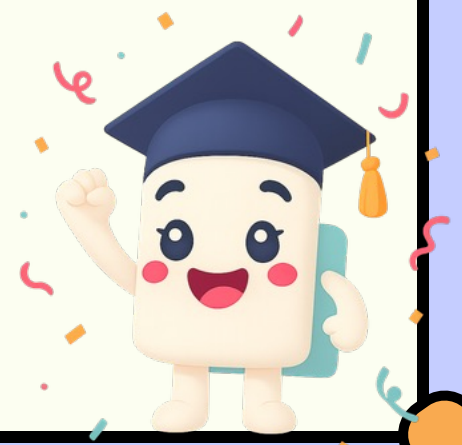
Complete the check: $39 + ? = 46$

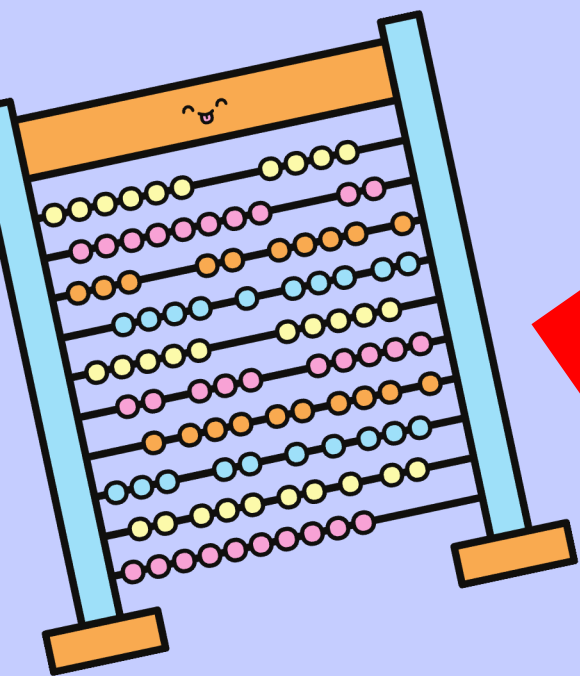
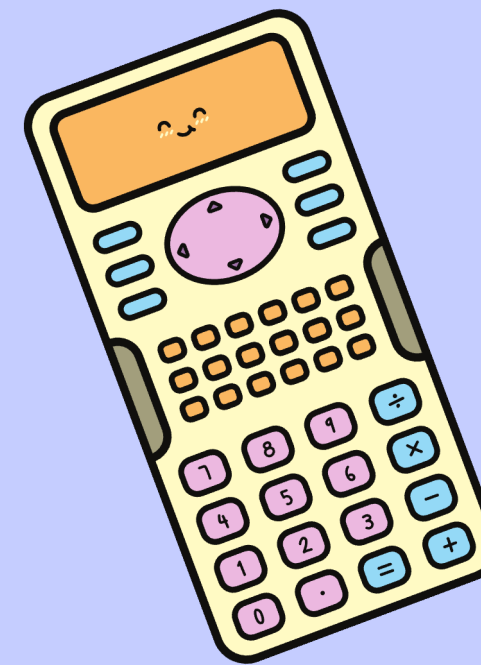
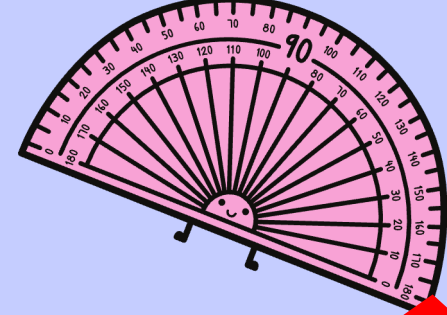
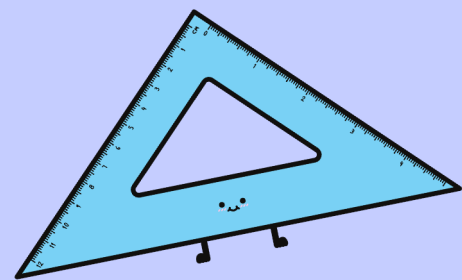
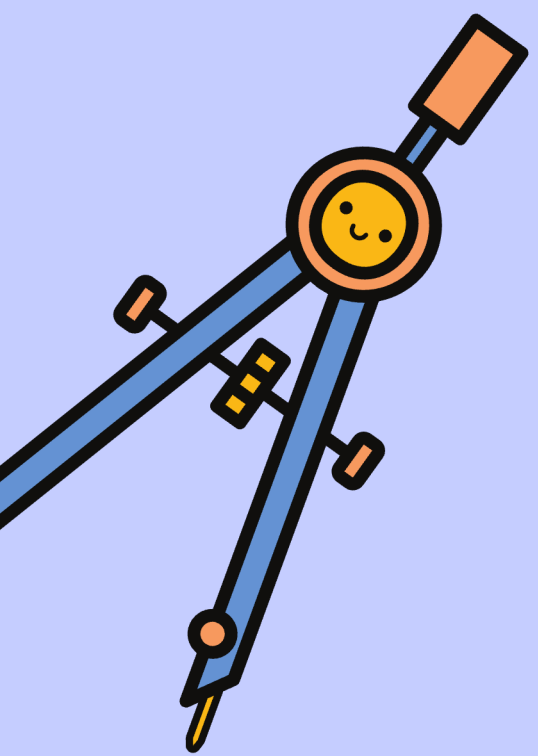


Answer 10

7 in both links

$$46 - 20 = 7 \text{ and } 20 + 7 =$$





PREVIEW

