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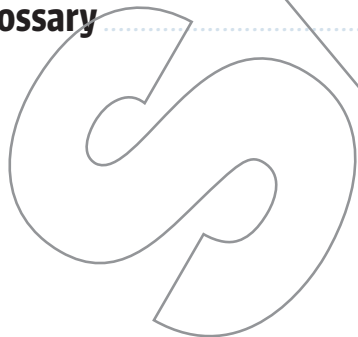
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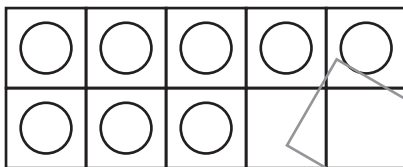


Addition and Subtraction Strategies

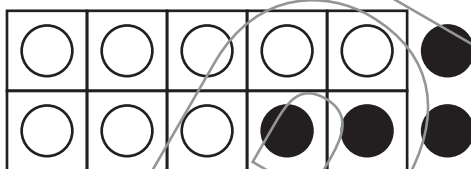
Make 10 to help you add.

What is $8 + 4$?

Use a ten frame.
Show 8.



Add 4 counters.
Fill in the ten frame.



Look at the new addition sentence: $10 + 2 = \square$

Add: $10 + 2 = 12$. So $8 + 4 = 12$.

A **fact family** shows related facts. It has three numbers. One is a total. The other two are parts.

What facts are
in this fact family?

Write addition sentences.
Add the parts.

Part	Part
8	4
Total	
12	

$$8 + 4 = 12 \quad 4 + 8 = 12$$

Write subtraction sentences. Subtract the parts
from the total.

$$12 - 8 = 4 \quad 12 - 4 = 8$$

Add to put groups together.

Subtract to take a group apart.

Make 10. Then count on from 10.

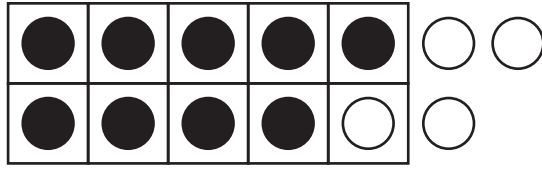
A **ten frame** is a box with ten spaces. Use it to add and subtract.

Addition facts help you with subtraction facts. Think of the addition fact. Use it to find the subtraction fact.

GUIDED PRACTICE

Read and solve each problem.

- 1 What addition sentence does this ten frame show?



How many black circles are there?
How many white circles?

- A** $8 + 4 = 12$
B $9 + 3 = 12$
C $9 + 1 = 10$
D $9 + 4 = 13$
- 2 Dion adds $9 + 6$. What make-10 fact could he use?

- A** $9 + 10$
B $10 + 5$
C $10 + 6$
D $9 + 6 + 10$

Use a ten-frame.
Fill the box.
Then find out
how many are
outside the box.

- 3 Look at this addition fact.

$$9 + 8 = 17$$

What is a related subtraction fact?

Use the same
three numbers.
Write a
subtraction fact.

Answer _____





TEST YOURSELF

Read and solve each problem.

- 1 Cassie subtracts $15 - 8$. Which addition sentence can help her?

- A $15 + 8 = 23$
- B $8 + 10 = 18$
- C $8 + 7 = 15$
- D $3 + 12 = 15$

- 2 Steve added $6 + 8$. He makes ten. Which model shows what Steve did?

- A 
- B 
- C 
- D 

- 5 Write the addition sentence shown. Then write the make-10 fact.

Addition sentence _____

Make-10 fact _____

- 3 Look at this fact family.

$$4 + 7 = 11 \quad 11 - 4 = \boxed{}$$

$$7 + 4 = 11 \quad \boxed{} - 7 = \boxed{}$$

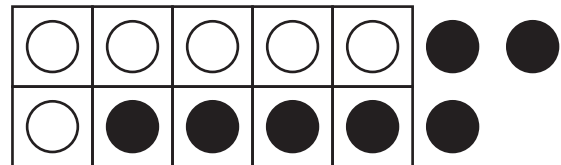
Which number sentence is missing?

- A $11 - 7 = 4$
- B $11 - 9 = 2$
- C $11 + 7 = 18$
- D $11 + 4 = 15$

- 4 What addition sentence does this ten frame show?



- A $4 + 6 = 10$
- B $2 + 8 = 10$
- C $10 + 3 = 13$
- D $8 + 5 = 13$



- 6 Write the facts in this fact family.
 There are two addition sentences.
 There are two subtraction sentences.

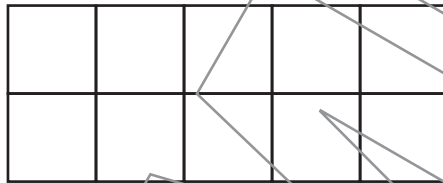
Part	Part
9	5
Total	
14	

Addition sentences _____

Subtraction sentences _____

- 7 Lana adds $5 + 7$.

Part A Use this ten frame to add $5 + 7$. Write the sum.



Answer _____

Part B Lana writes a related subtraction fact. What are the two related subtraction facts?

Answer _____
