

## RELATIONAL SUBTRACTION

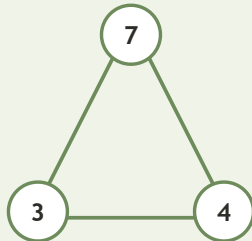
Worksheet 3 • Connect the Number Family

Objective: Use addition and subtraction facts that belong together.

**DO THIS** Use the three numbers to write the whole fact family.

**EXAMPLE** Use the same numbers to complete every related equation.

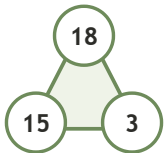
**EXAMPLE**



$$\begin{aligned} 3 + 4 &= 7 \\ 4 + 3 &= 7 \\ 7 - 3 &= 4 \\ 7 - 4 &= 3 \end{aligned}$$

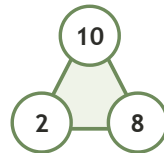
**GUIDED PRACTICE** Complete each fact family.

1



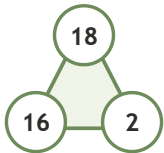
$$\begin{aligned} 15 + 3 &= \square \\ 3 + 15 &= \square \\ 18 - 15 &= \square \\ 18 - 3 &= \square \end{aligned}$$

2



$$\begin{aligned} 2 + 8 &= \square \\ 8 + 2 &= \square \\ 10 - 2 &= \square \\ 10 - 8 &= \square \end{aligned}$$

3



$$\begin{aligned} 16 + 2 &= \square \\ 2 + 16 &= \square \\ 18 - 16 &= \square \\ 18 - 2 &= \square \end{aligned}$$

**INDEPENDENT PRACTICE** Write the missing fact.

1  $17 - \square = 5$

2  $\square - 10 = 9$

3  $9 - 3 = \square$

4  $11 + \square = 16$

5  $9 - \square = 7$

6  $\square - 3 = 10$

7  $12 - 5 = \square$

8  $13 + \square = 16$

9  $9 - \square = 5$

**BUILD IT BACK** Prove the subtraction with addition.

1  $18 - 3 = \square$   
Check:  $3 + \square = 18$

2  $18 - 8 = \square$   
Check:  $8 + \square = 18$

3  $19 - 9 = \square$   
Check:  $9 + \square = 19$

I connected:  addition  subtraction  both

TEACHER EDITION

## RELATIONAL SUBTRACTION

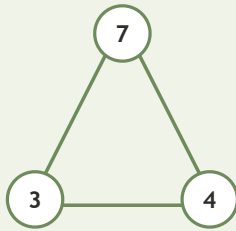
Worksheet 3 • Connect the Number Family

Objective: Use addition and subtraction facts that belong together.

**DO THIS** Use the three numbers to write the whole fact family.

**EXAMPLE** Use the same numbers to complete every related equation.

EXAMPLE



$$\begin{aligned} 3 + 4 &= 7 \\ 4 + 3 &= 7 \\ 7 - 3 &= 4 \\ 7 - 4 &= 3 \end{aligned}$$

**GUIDED PRACTICE** Complete each fact family.

1

$$\begin{aligned} 15 + 3 &= 18 \\ 3 + 15 &= 18 \\ 18 - 15 &= 3 \\ 18 - 3 &= 15 \end{aligned}$$

2

$$\begin{aligned} 2 + 8 &= 10 \\ 8 + 2 &= 10 \\ 10 - 2 &= 8 \\ 10 - 8 &= 2 \end{aligned}$$

3

$$\begin{aligned} 16 + 2 &= 18 \\ 2 + 16 &= 18 \\ 18 - 16 &= 2 \\ 18 - 2 &= 16 \end{aligned}$$

**INDEPENDENT PRACTICE** Write the missing fact.

1  $17 - 12 = 5$

2  $19 - 10 = 9$

3  $9 - 3 = 6$

4  $11 + 5 = 16$

5  $9 - 2 = 7$

6  $13 - 3 = 10$

7  $12 - 5 = 7$

8  $13 + 3 = 16$

9  $9 - 4 = 5$

**BUILD IT BACK** Prove the subtraction with addition.

1  $18 - 3 = 15$   
Check:  $3 + 15 = 18$

2  $18 - 8 = 10$   
Check:  $8 + 10 = 18$

3  $19 - 9 = 10$   
Check:  $9 + 10 = 19$

**TEACHER NOTES** Answer key & guidance

Answers: 12, 19, 6, 5, 2, 13, 7, 3, 4  
Common error: Treating addition and subtraction as unrelated rules

Strategy: Part + part = whole; whole - part = part  
Prompt: "What whole do these two parts build?"

I connected:  addition  subtraction  both