

## RELATIONAL SUBTRACTION

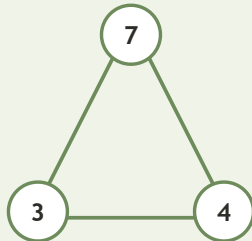
Worksheet 3 • Connect the Number Family

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  $5 + 11 = \square$   
 $11 + 5 = \square$   
 $16 - 5 = \square$   
 $16 - 11 = \square$

2  $6 + 3 = \square$   
 $3 + 6 = \square$   
 $9 - 6 = \square$   
 $9 - 3 = \square$

3  $17 + 2 = \square$   
 $2 + 17 = \square$   
 $19 - 17 = \square$   
 $19 - 2 = \square$

**INDEPENDENT PRACTICE** Write the missing fact.

1  $10 - \square = 9$

2  $\square - 7 = 1$

3  $9 - 3 = \square$

4  $5 + \square = 12$

5  $14 - \square = 5$

6  $\square - 9 = 3$

7  $12 - 8 = \square$

8  $15 + \square = 19$

9  $12 - \square = 8$

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

1  $12 - 11 = \square$   
 Check:  $11 + \square = 12$

2  $11 - 9 = \square$   
 Check:  $9 + \square = 11$

3  $14 - 13 = \square$   
 Check:  $13 + \square = 14$

I connected:  addition  subtraction  both

TEACHER EDITION

## RELATIONAL SUBTRACTION

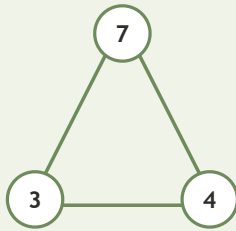
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Objective: Use addition and subtraction facts that belong together.

**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

$$\begin{aligned} 5 + 11 &= \underline{16} \\ 11 + 5 &= \underline{16} \\ 16 - 5 &= \underline{11} \\ 16 - 11 &= \underline{5} \end{aligned}$$

2

$$\begin{aligned} 6 + 3 &= \underline{9} \\ 3 + 6 &= \underline{9} \\ 9 - 6 &= \underline{3} \\ 9 - 3 &= \underline{6} \end{aligned}$$

3

$$\begin{aligned} 17 + 2 &= \underline{19} \\ 2 + 17 &= \underline{19} \\ 19 - 17 &= \underline{2} \\ 19 - 2 &= \underline{17} \end{aligned}$$

**INDEPENDENT PRACTICE** Write the missing fact.

1  $10 - \underline{1} = 9$

2  $\underline{8} - 7 = 1$

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

4  $5 + \underline{7} = 12$

5  $14 - \underline{9} = 5$

6  $\underline{12} - 9 = 3$

7  $12 - 8 = \underline{4}$

8  $15 + \underline{4} = 19$

9  $12 - \underline{4} = 8$

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

1  $12 - 11 = \underline{1}$   
Check:  $11 + \underline{1} = 12$

2  $11 - 9 = \underline{2}$   
Check:  $9 + \underline{2} = 11$

3  $14 - 13 = \underline{1}$   
Check:  $13 + \underline{1} = 14$

**TEACHER NOTES** Answer key & guidance

Answers: 1, 8, 6, 7, 9, 12, 4, 4, 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