FAITH THINKERS
Traditional Arithmetic & Logic

Name: _____

RELATIONAL SUBTRACTION

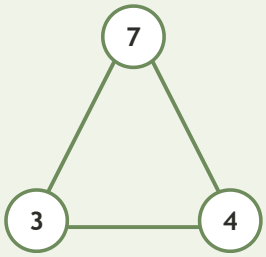
Worksheet 3 • Connect the Number Family

Objective: *Use addition and subtraction facts that belong together.*

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

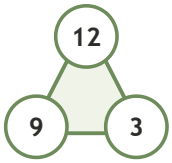
EXAMPLE Use the same numbers to complete every related equation.

EXAMPLE

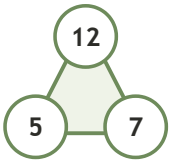


3 + 4 = 7
4 + 3 = 7
7 − 3 = 4
7 − 4 = 3

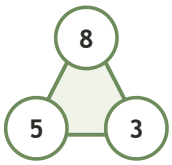
GUIDED PRACTICE Complete each fact family.

1. 

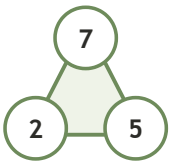
9 + 3 = ☐
3 + 9 = ☐
12 − 9 = ☐
12 − 3 = ☐

2. 

5 + 7 = ☐
7 + 5 = ☐
12 − 5 = ☐
12 − 7 = ☐

3. 

5 + 3 = ☐
3 + 5 = ☐
8 − 5 = ☐
8 − 3 = ☐

4. 

2 + 5 = ☐
5 + 2 = ☐
7 − 2 = ☐
7 − 5 = ☐

INDEPENDENT PRACTICE Write the missing fact.

1. 20 − ☐ = 12
2. ☐ − 3 = 12
3. 17 − 14 = ☐
4. 12 + ☐ = 17
5. 15 − ☐ = 6
6. ☐ − 2 = 16

BUILD IT BACK Prove the subtraction with addition.

1. 9 − 3 = ☐
   Check: 3 + ☐ = 9
2. 11 − 3 = ☐
   Check: 3 + ☐ = 11
3. 20 − 5 = ☐
   Check: 5 + ☐ = 20

I connected: ☐ addition ☐ subtraction ☐ both

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TEACHER EDITION

RELATIONAL SUBTRACTION

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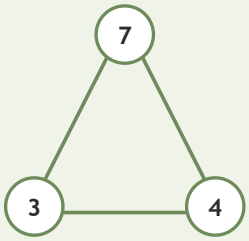
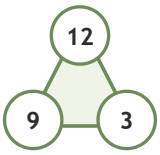


3 + 4 = 7
4 + 3 = 7
7 − 3 = 4
7 − 4 = 3

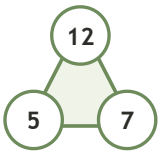
GUIDED PRACTICE Complete each fact family.

1.



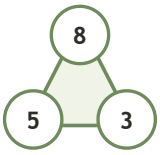
9 + 3 = 12
3 + 9 = 12
12 − 9 = 3
12 − 3 = 9

2.



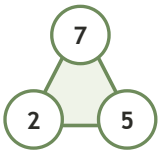
5 + 7 = 12
7 + 5 = 12
12 − 5 = 7
12 − 7 = 5

3.



5 + 3 = 8
3 + 5 = 8
8 − 5 = 3
8 − 3 = 5

4.



2 + 5 = 7
5 + 2 = 7
7 − 2 = 5
7 − 5 = 2

INDEPENDENT PRACTICE Write the missing fact.

1. 20 − 8 = 12
2. 15 − 3 = 12
3. 17 − 14 = 3
4. 12 + 5 = 17
5. 15 − 9 = 6
6. 18 − 2 = 16

BUILD IT BACK Prove the subtraction with addition.

1. 9 − 3 = 6
   Check: 3 + 6 = 9
2. 11 − 3 = 8
   Check: 3 + 8 = 11
3. 20 − 5 = 15
   Check: 5 + 15 = 20

TEACHER NOTES Answer key & guidance

Answers: 8, 15, 3, 5, 9, 18
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