

## RELATIONAL SUBTRACTION

Multi-Step • Track the Change

Objective: *Track a quantity through two changes to a final amount.*

**DO THIS** Track the quantity through each change. Write one equation per step.

**WORKED EXAMPLE** Solve one step at a time. Keep each new total.

**EXAMPLE**

Maya had 92 stickers. She gave away 15, then gave away 75 more.

$$92 - 15 = \square$$

$$77 - 75 = \square$$

Left: \_\_\_\_

**TRACK THE CHANGE** Write one equation per step, then the final amount.

1

Ruth had 80 cards. Gave away 12, then 40 more. How many are left?

Step 1  $80 - 12 = \square \rightarrow$  Step 2  $\square$

$$68 - 40 = \square$$

2

Ben had 87 stickers. Gave away 6, then 22 more. How many are left?

Step 1  $87 - 6 = \square \rightarrow$  Step 2  $\square$

$$81 - 22 = \square$$

3

Eli had 99 cards. Gave away 33, then 58 more. How many are left?

Step 1  $99 - 33 = \square \rightarrow$  Step 2  $\square$

$$66 - 58 = \square$$

4

Ben had 56 stickers. Gave away 10, then 22 more. How many are left?

Step 1  $56 - 10 = \square \rightarrow$  Step 2  $\square$

$$46 - 22 = \square$$

**CHECK** Does the final amount make sense?  yes  re-check

My final answer is reasonable because it is \_\_\_\_ than the start.

I tracked:  each step  only the end  with a diagram

TEACHER EDITION

## RELATIONAL SUBTRACTION

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Objective: *Track a quantity through two changes to a final amount.*

**DO THIS** Track the quantity through each change. Write one equation per step.

**WORKED EXAMPLE** Solve one step at a time. Keep each new total.

**EXAMPLE**

Maya had 92 stickers. She gave away 15, then gave away 75 more.

$$92 - 15 = \underline{77}$$

$$77 - 75 = \underline{2}$$

Left: 2

**TRACK THE CHANGE** Write one equation per step, then the final amount.

1

Ruth had 80 cards. Gave away 12, then 40 more. How many are left?

Step 1  $80 - 12 = \underline{68}$  → Step 2 28

$$68 - 40 = \underline{28}$$

2

Ben had 87 stickers. Gave away 6, then 22 more. How many are left?

Step 1  $87 - 6 = \underline{81}$  → Step 2 59

$$81 - 22 = \underline{59}$$

3

Eli had 99 cards. Gave away 33, then 58 more. How many are left?

Step 1  $99 - 33 = \underline{66}$  → Step 2 8

$$66 - 58 = \underline{8}$$

4

Ben had 56 stickers. Gave away 10, then 22 more. How many are left?

Step 1  $56 - 10 = \underline{46}$  → Step 2 24

$$46 - 22 = \underline{24}$$

**CHECK** Does the final amount make sense?  yes  re-check

My final answer is reasonable because it is \_\_\_\_ than the start.

**TEACHER NOTES** Answer key & guidance

Answers: 28; 59; 8; 24  
Common error: Subtracting both changes from the start at once

Strategy: Carry the running total into the next step  
Prompt: "What is the new total after step 1?"

I tracked:  each step  only the end  with a diagram