

## 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 606 stickers. She gave away 8, then gave away 22 more.

$$606 - 8 = \square$$

$$598 - 22 = \square$$

Left: \_\_\_\_

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

1

Eli had 626 beads. Gave away 161, then 123 more. How many are left?

Step 1  $626 - 161 = \square$   $\square$

→ Step 2  $465 - 123 = \square$

2

Ben had 519 coins. Gave away 69, then 33 more. How many are left?

Step 1  $519 - 69 = \square$   $\square$

→ Step 2  $450 - 33 = \square$

3

Eli had 744 marbles. Gave away 217, then 378 more. How many are left?

Step 1  $744 - 217 = \square$   $\square$

→ Step 2  $527 - 378 = \square$

**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

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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 606 stickers. She gave away 8, then gave away 22 more.

$$606 - 8 = \underline{598}$$

$$598 - 22 = \underline{576}$$

Left: 576

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

1

Eli had 626 beads. Gave away 161, then 123 more. How many are left?

Step 1  $626 - 161 = \underline{465}$

342

→ Step 2  $465 - 123 = \underline{342}$

2

Ben had 519 coins. Gave away 69, then 33 more. How many are left?

Step 1  $519 - 69 = \underline{450}$  → Step 2

417

$450 - 33 = \underline{417}$

3

Eli had 744 marbles. Gave away 217, then 378 more. How many are left?

Step 1  $744 - 217 = \underline{527}$

149

→ Step 2  $527 - 378 = \underline{149}$

**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: 342; 417; 149

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