

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 519 stickers. She gave away 105, then gave away 350 more.

$$519 - 105 = \square$$

$$414 - 350 = \square$$

Left: ____

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

1

Sam had 611 beads. Gave away 186, then 129 more. How many are left?

Step 1 $611 - 186 = \square$ \square

→ Step 2 $425 - 129 = \square$

2

Eli had 593 coins. Gave away 11, then 318 more. How many are left?

Step 1 $593 - 11 = \square$ \square

→ Step 2 $582 - 318 = \square$

3

Ruth had 884 cards. Gave away 16, then 517 more. How many are left?

Step 1 $884 - 16 = \square$ \square

→ Step 2 $868 - 517 = \square$

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 519 stickers. She gave away 105, then gave away 350 more.

$$519 - 105 = \underline{414}$$

$$414 - 350 = \underline{64}$$

Left: 64

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

1

Sam had 611 beads. Gave away 186, then 129 more. How many are left?

Step 1 $611 - 186 = \underline{425}$ 296

→ Step 2 $425 - 129 = \underline{296}$

2

Eli had 593 coins. Gave away 11, then 318 more. How many are left?

Step 1 $593 - 11 = \underline{582}$ → Step 2 264

$582 - 318 = \underline{264}$

3

Ruth had 884 cards. Gave away 16, then 517 more. How many are left?

Step 1 $884 - 16 = \underline{868}$ → Step 2 351

$868 - 517 = \underline{351}$

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: 296; 264; 351

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