

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 886 stickers. She gave away 211, then gave away 49 more.

$$886 - 211 = \square$$

$$675 - 49 = \square$$

Left: ____

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

1

Ben had 871 coins. Gave away 64, then 524 more. How many are left?

Step 1 $871 - 64 = \square$ \square

→ Step 2 $807 - 524 = \square$

2

Ruth had 812 stickers. Gave away 149, then 433 more. How many are left?

Step 1 $812 - 149 = \square$ \square

→ Step 2 $663 - 433 = \square$

3

Ruth had 638 marbles. Gave away 81, then 406 more. How many are left?

Step 1 $638 - 81 = \square$ \square

→ Step 2 $557 - 406 = \square$

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

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 886 stickers. She gave away 211, then gave away 49 more.

$$886 - 211 = \underline{675}$$

$$675 - 49 = \underline{626}$$

Left: 626

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

1

Ben had 871 coins. Gave away 64, then 524 more. How many are left?

Step 1 $871 - 64 = \underline{807}$ → Step 2 283

$$807 - 524 = \underline{283}$$

2

Ruth had 812 stickers. Gave away 149, then 433 more. How many are left?

Step 1 $812 - 149 = \underline{663}$ 230

→ Step 2 $663 - 433 = \underline{230}$

3

Ruth had 638 marbles. Gave away 81, then 406 more. How many are left?

Step 1 $638 - 81 = \underline{557}$ → Step 2 151

$$557 - 406 = \underline{151}$$

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: 283; 230; 151

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