

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 691 stickers. She gave away 222, then gave away 215 more.

$$691 - 222 = \square$$

$$469 - 215 = \square$$

Left: ____

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

1

Ava had 500 coins. Gave away 146, then 279 more. How many are left?

Step 1 $500 - 146 = \square$ \square

→ Step 2 $354 - 279 = \square$

2

Ruth had 940 marbles. Gave away 120, then 295 more. How many are left?

Step 1 $940 - 120 = \square$ \square

→ Step 2 $820 - 295 = \square$

3

Eli had 678 marbles. Gave away 205, then 137 more. How many are left?

Step 1 $678 - 205 = \square$ \square

→ Step 2 $473 - 137 = \square$

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 691 stickers. She gave away 222, then gave away 215 more.

$$691 - 222 = \underline{469}$$

$$469 - 215 = \underline{254}$$

Left: 254

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

1

Ava had 500 coins. Gave away 146, then 279 more. How many are left?

Step 1 $500 - 146 = \underline{354}$ 75

→ Step 2 $354 - 279 = \underline{75}$

2

Ruth had 940 marbles. Gave away 120, then 295 more. How many are left?

Step 1 $940 - 120 = \underline{820}$ 525

→ Step 2 $820 - 295 = \underline{525}$

3

Eli had 678 marbles. Gave away 205, then 137 more. How many are left?

Step 1 $678 - 205 = \underline{473}$ 336

→ Step 2 $473 - 137 = \underline{336}$

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: 75; 525; 336

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