

Develop Ways to Solve Two-Step Problems

Read and try to solve the problem below.

Mato has 8 pears in his basket. He picks 6 more pears. Then Mato gives away 5 pears to his stepbrother. How many pears does Mato have now?

TRY IT



Math Toolkit

- connecting cubes
- counters
- 10-frames
- number bonds
- number lines



DISCUSS IT

Ask your partner:
Do you agree with me? Why or why not?

Tell your partner:
I disagree with this part because ...



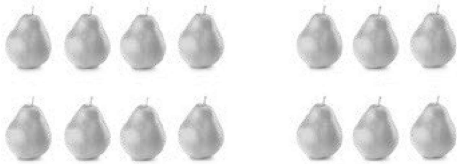
Explore different ways to understand solving two-step word problems.

Mato has 8 pears in his basket. He picks 6 more pears. Then Mato gives away 5 pears to his stepbrother. How many pears does Mato have now?

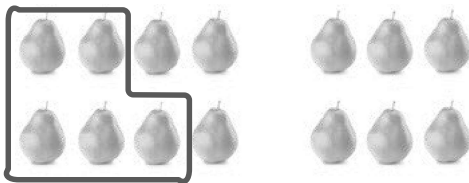
PICTURE IT

You can draw pictures.

Step 1: 8 pears + 6 more pears



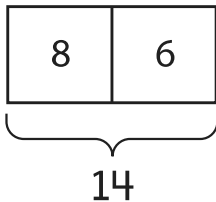
Step 2: 14 pears – 5 pears given away



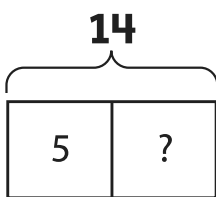
MODEL IT

You can make bar models.

Step 1:



Step 2:



CONNECT IT

Now you will use the **Try It** to help you understand how to solve two-step word problems using equations.

- 1 Look at **Picture It**. Write an equation for Step 1.

$$\dots + \dots = \dots$$

- 2 Look at **Model It**. Write an equation for Step 2.

$$\dots - \dots = ?$$

- 3 How many pears does Mato have now?
- 4 How is a two-step problem different from a one-step problem?

5 REFLECT

Look back at your **Try It**, strategies by classmates, and **Picture It** and **Model It**. Which models or strategies do you like best for solving two-step word problems? Explain.

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Practice Ways to Solve Two-Step Problems

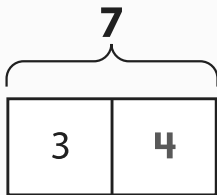
Study the Example showing one way to solve a two-step word problem. Then solve problems 1–4.

EXAMPLE

There are 7 balls in the gym closet. Then 3 balls are taken out of the closet. After class, 9 balls are put back in the closet. How many balls are in the closet now?

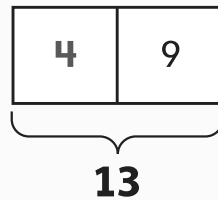
Step 1:

$$7 \text{ balls} - 3 \text{ balls} = 4 \text{ balls}$$



Step 2:

$$4 \text{ balls} + 9 \text{ balls} = 13 \text{ balls}$$



So, there are 13 balls in the closet now.

Deon has 13 posters to hang. He hangs 5 in the morning. Then he hangs 4 more in the afternoon. How many posters does Deon have left to hang?

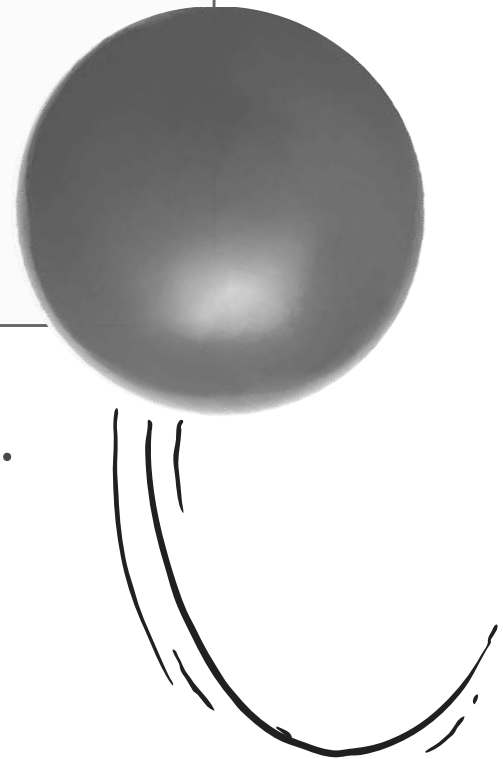
1 Circle an equation for Step 1.

Underline an equation for Step 2.

$$5 - 4 = 1 \qquad 13 + 5 = 18$$

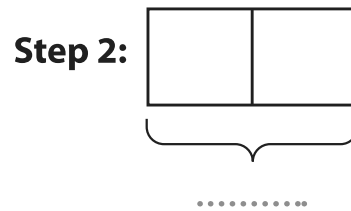
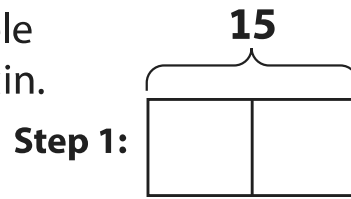
$$8 - 4 = 4 \qquad 13 - 5 = 8$$

2 Deon has posters left.



- 3 There are 15 people on a train. Then 8 people get off the train and 3 people get on the train. How many people are on the train now?

Complete the bar models to help you solve the problem. Show your work.



Solution.....

- 4 A box holds 12 markers. Jada takes out 6 markers. Then she puts 2 markers back. Are there enough markers in the box for Wali to take out 10? Show your work.

Solution.....

