

Solve One-Step Word Problems With Two-Digit Numbers

Name: _____

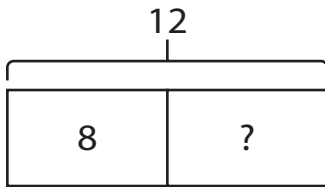
Prerequisite: Solve One-Step Word Problems

Study the example showing how to solve a word problem. Then solve Problems 1–7.

Example

Seth had 8 toy cars. Then his friend gave him more cars. Now Seth has 12 cars. How many cars did Seth's friend give him?

Use a model.



Use a number sentence.

$$8 + ? = 12 \quad \text{or} \quad 12 - 8 = ? \quad \text{or} \quad 12 - ? = 8$$

Seth's friend gave him 4 cars.

There are 17 students in the gym. There are 9 boys.

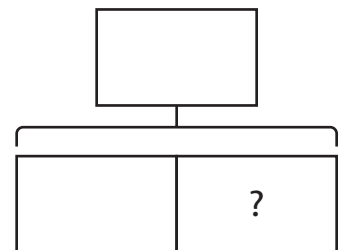
1 What number is the total? What part do you know? Complete the tape diagram.

2 Complete the number sentences.

$$\underline{\hspace{2cm}} + ? = 17 \quad 17 - \underline{\hspace{2cm}} = ?$$

$$17 - ? = \underline{\hspace{2cm}}$$

3 How many girls are in the gym? _____



Solve.

There are 7 birds on a fence. More birds join them. Then there are 13 birds on the fence.

- 4 How many birds joined the 7 on the fence? Write three number sentences you could use to solve.

$$\underline{\quad\quad\quad} + ? = \underline{\quad\quad\quad}$$

$$\underline{\quad\quad\quad} - ? = \underline{\quad\quad\quad}$$

$$\underline{\quad\quad\quad} - \underline{\quad\quad\quad} = ?$$

- 5 How many birds joined the first 7 birds?

Ryan had 6 acorns and Jo had 15 acorns. Then Jo gives Ryan some acorns. Now Ryan has 11 acorns.

- 6 How many acorns do Ryan and Jo have altogether?

Show your work.

Answer: _____

- 7 How many acorns did Jo give Ryan?

Show your work.

Answer: _____

Use Number Sentences to Solve Word Problems

Study the example showing how to use number sentences to solve word problems. Then solve Problems 1–6.

Example

Ted has some beads. Then he gets 18 more beads. Now Ted has 42 beads. How many beads did Ted have to begin with?

| | |
|----|----|
| 42 | |
| ? | 18 |

Use addition:
start + change = total

$$? + 18 = 42$$

$$? = 24$$

or

Use subtraction:
total – change = start

$$42 - 18 = ?$$

Ted had 24 beads to begin with.

Mrs. Tate has some fish in her fish tank. She buys 25 more fish. Now there are 73 fish in the fish tank.

- 1** Fill in the empty boxes of the model. Then complete the number sentences.

$$? + \underline{\quad\quad} = \underline{\quad\quad}$$

$$\underline{\quad\quad} - \underline{\quad\quad} = ?$$

| | |
|---|--|
| | |
| ? | |

- 2** How many fish were in the fish tank at the start?

Show your work.

Answer: _____

Use Words and Numbers to Model Problems

Study the example showing how to model with words and numbers. Then solve Problems 1–6.

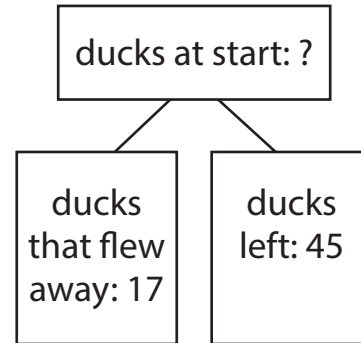
Example

Some ducks were in the pond. Then 17 flew away. Now there are 45 ducks in the pond. How many ducks were in the pond at the start?

Model the problem with words or with numbers. Then write a number sentence.

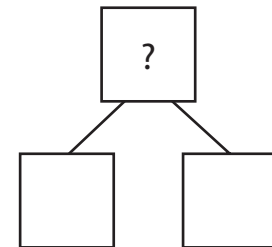
$$17 + 45 = 62$$

There were 62 ducks to begin with.



Rick has some grapes. Rick eats 15 of the grapes. Then he has 19 grapes left.

- 1** Complete the number bond to model the problem.



- 2** How many grapes did Rick start with?
Show your work.

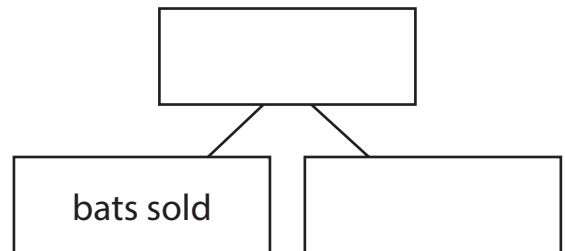
Answer: _____

Solve.

A sports store sells baseball bats. In one week, 34 bats are sold. Then the store has 46 bats left. How many bats did the store have to begin with?

- 3 Model the problem with words.
Complete the number bond.

- 4 Solve the problem.
Show your work.



Answer: _____

There were 41 people waiting at a bus stop. Then 23 of them got on a bus. Now there are 39 people on the bus.

- 5 Now how many people are still waiting at the bus stop?
Show your work.

Answer: _____

- 6 How many people were on the bus to begin with?
Show your work.

Answer: _____

Model and Solve Word Problems

Solve the problems.

- 1** Carlos sells 32 muffins at a bake sale. Jake sells 25 fewer muffins. How many muffins does Jake sell?

Which number sentences can you use to solve the problem? Circle *Yes* or *No* for each number sentence.

- | | | |
|-------------------------|-----|----|
| a. $25 + ? = 32$ | Yes | No |
| b. $25 + 32 = ?$ | Yes | No |
| c. $32 - ? = 25$ | Yes | No |
| d. $32 - 25 = ?$ | Yes | No |

Who sells more muffins?



- 2** Some beads were in a box. Anne used 17 of them. Then there were 56 beads in the box. How many beads were in the box to begin with? Circle the correct answer.

- A** 79
B 73
C 39
D 29

Dave chose **C**. This is wrong. How did Dave get his answer?

Can you draw a model to help you think about the problem?



