Write and Solve Equations Using Addition or Subtraction

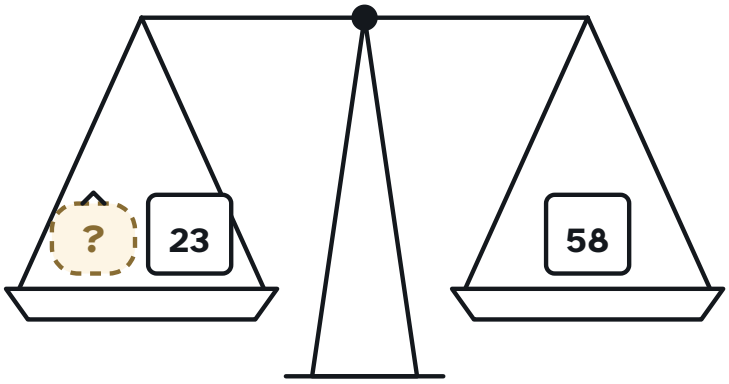
Solve equations that add or subtract by undoing the operation on both sides.

Name _____ **Date** _____

Tonight's spark

A rec-center team has 23 points at halftime. The final scoreboard says 58. How many points did the team score in the second half?

Guess first: did they score more than 30 points, or fewer?



Our class model: the balance and the inverse move

Try it

Work it out on paper. Write one answer on each line.

1 **What is the inverse (opposite) operation of adding 5?**

A. Adding 5 **B.** Subtracting 5 **C.** Multiplying by 5 **D.** Dividing by 5

My answer _____

2 **Solve: x + 6 = 10**

A. 16 **B.** 6 **C.** 4 **D.** 10

My answer _____

3 **Solve: n − 3 = 7**

A. 4 **B.** 10 **C.** 21

My answer _____

4 **To solve m + 12 = 20, what do you do to both sides?**

A. Subtract 12 **B.** Add 12 **C.** Divide by 12 **D.** Subtract 20

My answer _____

5 **A game costs $24. You have $15 and need m more dollars, so 15 + m = 24. What is m?**

A. $39 **B.** $15 **C.** $24 **D.** $9

My answer _____

6 **Solve: p − 8 = 14**

A. 6 **B.** 112 **C.** 22

My answer _____

Talk about it

What operation undoes + 4? What did you do to both sides to keep the balance?

Home mission

Count out 58 beans. Cover 23 of them with a cup. Ask: how many beans are showing? What equation says showing + 23 = 58? Then count to check.

If we get stuck, ask

- Is the number being added or subtracted? What is the opposite action?
- Did we do the same thing to both sides to keep it balanced?
- Let's put the answer back in and check if the sentence is true.

Do it on a screen

Scan or type the link. Same lesson, with hints.

eduwonderlab.com/lessons/8-2/homework.html

How did it feel? (optional)

Tricky Getting there Got it