

## Exercise - Solving Equations with Variables on Both Sides

1

If  $7n + 3 = 2n - 12$ , what is the value of  $-n + 3$ ?

2

If  $7(h - 5) - 3h = \frac{3}{2}h$ , what is the value of  $\frac{1}{7}h$ ?

3

$$\frac{r}{3} + \frac{s}{11} = \frac{39}{33}$$

Given the above equation, if  $s = 2$ , what is the value of  $r$ ?

4

If  $\frac{9 - 2k}{3} = k - 2$ , what is the value of  $k$ ?

5

A \$48 shirts costs \$22 more than one half the cost of a pair of pants. How much does the pair of pants cost?

6

Twice a number  $n$ , increased by 11 is the same as six times the number decreased by 9. What is the value of  $n$ ?

7

One half of a number increased by 3 is five less than two thirds of the number.

8

Four times the greatest of three consecutive odd integers exceeds three times the least by 31. What is the greatest of the three consecutive odd integers?