

IXL Skill 8.W.10 Solving Equations Involving Like Terms

**Like Terms:** have the same \_\_\_\_\_ and the same \_\_\_\_\_

When like terms are on the same side of the equals sign, combine the **coefficients** (the numbers in front of the variables/being \_\_\_\_\_ by the variables).

Then, solve equations using \_\_\_\_\_ operations.

$$4d + 3d = 14$$

$$d = \boxed{\phantom{00}}$$

Solve for  $h$ .

$$9h - 4h = 20$$

$$h = \boxed{\phantom{00}}$$

Solve for  $c$ .

$$6c - 2c - 3c = 15$$

$$c = \boxed{\phantom{00}}$$

Solve for  $d$ .

$$7d - 6d - d + d = 9$$

$$d = \boxed{\phantom{00}}$$

Solve for  $b$ .

$$-7b - 10b + -8b - -12b - 2b = 15$$

$$b = \boxed{\phantom{00}}$$

Solve for  $x$ .

$$17x - 17x - 6x = -18$$

$$x = \boxed{\phantom{00}}$$

Solve for  $t$ .

$$4t + 4t - 1 = 7$$

$$t = \boxed{\phantom{00}}$$

Solve for  $u$ .

$$-7u - -u - 5u + 4 = 15$$

$$u = \boxed{\phantom{00}}$$

Solve for  $q$ .

$$-q - -17q - 11q + -16q - -34q = -46$$

$$q = \boxed{\phantom{00}}$$

[IXL Skill 8.W.11 Solving Equations with Variables on Both Sides](#)

Use inverse operations to move variable terms or constants **ACROSS** the equals sign.

Combine variable terms on one side of the equals sign, and constants on the other side.

Solve for  $v$ .

$$6v = 7v + 9$$

$$v = \boxed{\phantom{000}}$$

Solve for  $f$ .

$$-4f = 8 - 5f$$

$$f = \boxed{\phantom{000}}$$

Solve for  $b$ .

$$-8b + 6 = -7b$$

$$b = \boxed{\phantom{000}}$$

Solve for  $t$ .

$$4 - 9t = -3 - 10t$$

$$t = \boxed{\phantom{000}}$$

Solve for  $v$ .

$$4v - 6 = 10 + 2v$$

$$v = \boxed{\phantom{000}}$$

Solve for  $f$ .

$$-20 + 13f = 19 + 10f$$

$$f = \boxed{\phantom{000}}$$

Solve for  $f$ .

$$8 - 4f = -5f - 2$$

$$f = \boxed{\phantom{000}}$$

Solve for  $t$ .

$$-4 + 9 + t = 5 - 4t$$

$$t = \boxed{\phantom{000}}$$

Solve for  $r$ .

$$r - 5 - 5r = -19 - 5r$$

$$r = \boxed{\phantom{000}}$$

Solve for  $d$ .

$$2d = d - 16$$

$$d = \boxed{\phantom{000}}$$

Solve for  $j$ .

$$-11.8j = -11.3j + 9.15$$

$$j = \boxed{\phantom{000}}$$

Solve for  $b$ .

$$19.87 - 15.5b + 17.62 = -19.71 + 13.1b$$

$$b = \boxed{\phantom{000}}$$