

SOLVING ONE-STEP EQUATIONS

ANSWERS

ADD AND SUBTRACT WITH DECIMALS

Helpful Example

$$r - 1.5 = 3.4$$

WE NEED TO FIND A VALUE FOR "r" THAT WILL MAKE THE EQUATION TRUE.

$$r - 1.5 = 3.4$$

THE EASIEST WAY TO FIND THE ANSWER IS TO GET THE NUMBERS AND VARIABLES ON OPPOSITE SIDES OF THE EQUAL SIGN. IF WE MOVE THE -1.5 , ALL THE NUMBERS WILL BE ON THE RIGHT SIDE AND "r", THE VARIABLE, WILL BE ON THE LEFT.

$$4.9 - 1.5 = 3.4$$

$$\begin{array}{r} r - 1.5 = 3.4 \\ +1.5 \quad +1.5 \\ \hline r - 0 = 4.9 \\ r = 4.9 \end{array}$$

TO MOVE A NUMBER OR VARIABLE WE NEED TO DO THE OPPOSITE OPERATION. SINCE WE ARE MOVING THE -1.5 WE NEED TO DO THE OPPOSITE TO BOTH SIDES. THE OPPOSITE OF -1.5 IS $+1.5$. SO ADD 1.5 TO BOTH SIDES.

Now your turn. Solve each equation.

1. $w + 1.9 = -2.5$

$$w = -4.4$$

2. $h - 2.3 = 3.8$

$$h = 6.1$$

3. $e - 7.1 = -4.2$

$$e = 2.9$$

4. $5.4 = 3.8 + t$

$$1.6 = t$$

5. $-0.7 = 5.2 + g$

$$-5.9 = g$$

6. $1 = 9.3 + s$

$$-8.3 = s$$

7. $-4.7 = x + 1.9$

$$-6.6 = x$$

8. $7 + a = -2.9$

$$a = -9.9$$

9. $-3.1 = j - 6.6$

$$3.5 = j$$

10. $-8 + k = -7.3$

$$k = 0.7$$

11. $3.4 = -4.6 + m$

$$8 = m$$

12. $2.8 + b = 9.3$

$$b = 6.5$$

13. $-7.9 = c - 8.5$

$$0.6 = c$$

14. $9.9 + r = 0.5$

$$r = -9.4$$

15. $y + 4 = -1.1$

$$y = -5.1$$