Multiple-Step Equations Worksheet Answer Key

A Low-Impact Alternative to Walking

Solve the following equations.

1.
$$4(x+3) = 28$$

$$x = 4$$

$$2. \ 2a + 3(a+4) = 30$$

$$a = 3\frac{3}{5}$$

3.
$$38 = -\frac{8}{5}(w+2) - 2$$

$$w = 27$$

4.
$$\frac{1}{8}(a+18) = |-10|$$

$$a = 62$$

5.
$$\frac{3}{4}(b+20)=16$$

$$b = \frac{4}{3}$$

6.
$$6\left(\frac{1}{t-1}+1\right)=6$$

No solution

7.
$$6\left(\frac{1}{t-1}+1\right)=\frac{1}{6}$$

$$t = \frac{-1}{35}$$

8.
$$\left[1-2|w^2|+3(w-1)\right]=w(5+\frac{1}{w})$$

$$w = -\frac{3}{4}$$

9.
$$8y + \frac{1}{4} = 5(\frac{y}{4} - 3)$$

$$y = -\frac{61}{27}$$

10.
$$0.8[2(u-3)-4(1-2u)]=5-u$$

$$u = \frac{13}{9}$$

©2012 Shmoop University, Inc. All rights reserved. For classroom use only. Want to print this out for your classroom? Go for it. All other reproduction and distribution is prohibited.