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

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

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

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

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

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