

Name:

Date: Score:

Linear Equations Worksheet

Solve each equation

$$\boxed{1} \quad 8(4a - 4) - 1 = 14 - 8a$$

$$\boxed{2} \quad 4(-8x + 5) = -30x - 26$$

$$\boxed{3} \quad 27 = 46 + 3x - x$$

$$\boxed{4} \quad 38 + 7k = 8(k + 4)$$

$$\boxed{5} \quad -2(4 - x) = 6(x + 4) + 4x$$

$$\boxed{6} \quad 0.05z + 0.2 = 0.15z - 10.5$$

$$\boxed{7} \quad 4(6 + 4x) = 0$$

$$\boxed{8} \quad \frac{x}{8} - \frac{x}{9} = 1$$

Name:

Date: Score:

Linear Equations Worksheet

Answers

$$\boxed{1} \quad 8(4a - 4) - 1 = 14 - 8a$$

$$a = \frac{47}{40}$$

$$\boxed{2} \quad 4(-8x + 5) = -30x - 26$$

$$x = 23$$

$$\boxed{3} \quad 27 = 46 + 3x - x$$

$$x = -\frac{19}{2}$$

$$\boxed{4} \quad 38 + 7k = 8(k + 4)$$

$$k = 6$$

$$\boxed{5} \quad -2(4 - x) = 6(x + 4) + 4x$$

$$x = -4$$

$$\boxed{6} \quad 0.05z + 0.2 = 0.15z - 10.5$$

$$z = 107$$

$$\boxed{7} \quad 4(6 + 4x) = 0$$

$$x = -\frac{3}{2}$$

$$\boxed{8} \quad \frac{x}{8} - \frac{x}{9} = 1$$

$$x = 72$$