

Name:

Date: Score:

Linear Equations Worksheet

Solve to find the unknown variable

1 $-\frac{9}{5}x = -45$

2 $\frac{x}{3} - \frac{x}{5} = 2$

3 $\frac{4x + 5}{6} = \frac{7}{2}$

4 $8 = 2(x - 5) + 6x$

5 $-(x + 2) = 2(3x - 4)$

6 $3 = 4(x - 2) + 5 - 3x$

7 $\frac{2x - 1}{3} - \frac{3x}{4} = \frac{5}{6}$

8 $-5x + 3 = 2x + 8$

9 $4 = -(2x + 4)$

10 $\frac{7}{8}y - 6 = 8$

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Answers

$$\boxed{1} \quad -\frac{9}{5}x = -45$$

$$x = 25$$

$$\boxed{2} \quad \frac{x}{3} - \frac{x}{5} = 2$$

$$x = 15$$

$$\boxed{3} \quad \frac{4x + 5}{6} = \frac{7}{2}$$

$$x = 4$$

$$\boxed{4} \quad 8 = 2(x - 5) + 6x$$

$$x = \frac{9}{4}$$

$$\boxed{5} \quad -(x + 2) = 2(3x - 4)$$

$$x = \frac{6}{7}$$

$$\boxed{6} \quad 3 = 4(x - 2) + 5 - 3x$$

$$x = 6$$

$$\boxed{7} \quad \frac{2x - 1}{3} - \frac{3x}{4} = \frac{5}{6}$$

$$x = -14$$

$$\boxed{8} \quad -5x + 3 = 2x + 8$$

$$x = -\frac{5}{7}$$

$$\boxed{9} \quad 4 = -(2x + 4)$$

$$x = -4$$

$$\boxed{10} \quad \frac{7}{8}y - 6 = 8$$

$$y = 16$$