

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## TWO STEP EQUATIONS WITH INFINITE

### ALGEBRA 1 WORKSHEET

**Solve each equation.**

1)  $4 = \frac{x}{5} + 1$

2)  $-3 = \frac{y}{4} - 5$

3)  $8a - 3 = 13$

4)  $7 = \frac{p}{6} + 2$

5)  $-2 = \frac{k}{3} - 4$

6)  $\frac{n}{7} + 1 = -2$

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# TWO STEP EQUATIONS WITH INFINITE ALGEBRA 1 WORKSHEET ANSWER KEY

**Solve each equation.**

$$1) \quad 4 = \frac{x}{5} + 1$$

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

$$3 * 5 = x$$

$$x = 15$$

$$2) \quad -3 = \frac{y}{4} - 5$$

$$-3 + 5 = \frac{y}{4} = 2 = \frac{y}{4}$$

$$2 * 4 = y$$

$$y = 8$$

$$3) \quad 8a - 3 = 13$$

$$8a = 13 + 3 = 8a = 16$$

$$\frac{16}{8} = a$$

$$a = 2$$

$$4) \quad 7 = \frac{p}{6} + 2$$

$$7 - 2 = \frac{p}{6} = 5 = \frac{p}{6}$$

$$5 * 6 = p$$

$$p = 30$$

$$5) \quad -2 = \frac{k}{3} - 4$$

$$-2 + 4 = \frac{k}{3} = 2 = \frac{k}{3}$$

$$2 * 3 = k$$

$$k = 6$$

$$6) \quad \frac{n}{7} + 1 = -2$$

$$\frac{n}{7} = -2 - 1 = \frac{n}{7} = -3$$

$$n = -3 * 7$$

$$n = -21$$