Solving One-Step Equations

Multiplication & Division

_____ Date: ___ Name:

Multiply or divide by the same amount on both sides so that the variable is by itself.

$$6x = 54$$

$$\frac{6x}{6} = \frac{54}{6}$$

$$\frac{1}{5}y = 8$$

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$$\frac{6x}{6} = \frac{54}{6}$$

$$x = 9$$

$$\frac{1}{5}y = 8$$

$$(5)\frac{1}{5}y = 8$$

$$y = 40$$

Solve each equation.

(1)
$$\frac{1}{4}r = -4$$
 (2) $24 = j(-4)$ (3) $z(3) = -9$ (4) $8 = -4j$

(2)
$$24 = j(-4)$$

(3)
$$z(3) = -9$$

$$(4)$$
 8 = $-4j$

(5)
$$e(6) = 36$$

(5)
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 (6) $-18 = 3q$ (7) $-18 = 6x$ (8) $4k = 12$

$$(7)$$
 -18 = $6x$

(8)
$$4k = 12$$

$$(9) 16 = -4s$$

(10)
$$-6n = -30$$

(9)
$$16 = -4s$$
 (10) $-6n = -30$ (11) $-4n = -20$ (12) $-\frac{q}{7} = 2$

(12)
$$-\frac{q}{7} = 2$$

(13)
$$-6 = \frac{z}{5}$$

$$(14) z(-7) = -28$$

(15)
$$5 = -\frac{1}{5}n$$

(13)
$$-6 = \frac{z}{5}$$
 (14) $z(-7) = -28$ (15) $5 = -\frac{1}{5}n$ (16) $-2 = -\frac{m}{4}$

(17)
$$5 = \frac{1}{3}z$$

(18)
$$f(6) = -36$$

(17)
$$5 = \frac{1}{3}z$$
 (18) $f(6) = -36$ (19) $-7 = \frac{1}{3}m$ (20) $-14 = -2m$

(20)
$$-14 = -2m$$