Name: Date:

# Multiplication and Division Equations

1. **a.** Which of the numbers 10, −10, or 250, or −250 is a root of the equation $5x = -50$?

   **b.** Which of the numbers 5, −5, −20, or 20 is a root of the equation $\frac{x}{10} = -2$?

2. Simplify.

**a.** $\frac{3x}{3}$ **b.** $\frac{4a}{a}$ **c.** $\frac{-2y}{2}$ **d.** $\frac{-5c}{-5}$ **e.** $\frac{2c}{-2}$ **f.** $\frac{7w}{-w}$

3. Should you multiply both sides by a number or divide both sides by a number so you can isolate x? Solve the equations.

| | |
|---|---|
| **a.** $2x = 62$ *divide* both sides *by 2* | **b.** $\frac{x}{3} = -30$ _____ both sides by __ |
| **c.** $x \div (-12) = 9$ _____ both sides by __ | **d.** $-7x = -28$ _____ both sides by __ |

4. Solve. Isolate x on the left side.

**a.** $6x = -42$

**b.** $-5x = -500$

**c.** $\frac{x}{6} = -3$

**d.** $-10x = 230$

**e.** $-2x = -56$

**f.** $\frac{x}{20} = 4$

**g.** $\frac{x}{-7} = -3$

**h.** $6x = 240$

**i.** $8x = -112$

**j.** $\frac{x}{-10} = 40$

Sample worksheet from
www.mathmammoth.com