

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. $2x = 62$ <u>divide</u> both sides <u>by 2</u>	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. $\frac{x}{8} = -3$

d. $-10x = 230$

e. $-2x = -56$

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

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

h. $6x = 240$

i. $8x = -112$

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

