

Algebra Equations 2b - Multiplying and Dividing**Short Answer**

1. $9x = 54$

2. $-12t = 24$

3. $40 = -5x$

4. $7y = -42$

5. $-108 = 9y$

6. $-4x = -36$

7. $\frac{t}{7} = 6$

8. $\frac{r}{4} = -3$

9. $\frac{x}{-8} = 11$

10. $-\frac{a}{2} = 6$

11. $\frac{x}{-5} = -11$

12. $-\frac{r}{5} = -9$

**Algebra Equations 2b - Multiplying and Dividing
Answer Section****SHORT ANSWER**

1. ANS:

6

$$9x = 54$$

$$\frac{9x}{9} = \frac{54}{9}$$

$$x = 6$$

2. ANS:

-2

$$-12t = 24$$

$$\frac{-12t}{-12} = \frac{24}{-12}$$

$$t = -2$$

3. ANS:

-8

$$40 = -5x$$

$$\frac{-5x}{-5} = \frac{40}{-5}$$

$$-8 = x$$

$$x = -8$$

4. ANS:

-6

$$7y = -42$$

$$\frac{7y}{7} = \frac{-42}{7}$$

$$y = -6$$

5. ANS:

$$-12$$

$$-108 = 9y$$

$$\frac{-108}{9} = \frac{9y}{9}$$

$$-12 = y$$

$$y = -12$$

6. ANS:

$$9$$

$$-4x = -36$$

$$\frac{-4x}{-4} = \frac{-36}{-4}$$

$$x = 9$$

7. ANS:

$$42$$

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

$$7 \cdot \frac{t}{7} = 6 \cdot 7$$

$$t = 42$$

8. ANS:

$$-12$$

$$\frac{r}{4} = -3$$

$$4 \cdot \frac{r}{4} = -3 \cdot 4$$

$$r = -12$$

9. ANS:

$$-88$$

$$\frac{x}{-8} = 11$$

$$-8 \cdot \frac{x}{-8} = 11 \cdot (-8)$$

$$x = -88$$

10. ANS:

$$-12$$

$$\frac{a}{2} = 6$$

$$-2 \cdot \left(-\frac{a}{2}\right) = 6 \cdot (-2)$$

$$a = -12$$

11. ANS:

55

$$\frac{x}{-5} = -11$$

$$-5 \cdot \frac{x}{-5} = -11 \cdot (-5)$$

$$x = 55$$

12. ANS:

45

$$\frac{r}{5} = -9$$

$$-5 \cdot \left(-\frac{r}{5}\right) = -9 \cdot (-5)$$

$$r = 45$$