

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

1. $3r = 18$

2. $-9r = 72$

3. $28 = -14x$

4. $3y = -36$

5. $-90 = 10y$

6. $-4m = -36$

7. $\frac{m}{9} = 3$

8. $\frac{x}{4} = -4$

9. $\frac{a}{-9} = 11$

10. $-\frac{a}{5} = 2$

11. $\frac{t}{-3} = -15$

12. $-\frac{y}{8} = -4$

Algebra Equations 2a - Multiplying and Dividing Answer Section

SHORT ANSWER

1. ANS:

6

$$3r = 18$$

$$\begin{array}{r} \frac{3r}{3} = \frac{18}{3} \\ \hline r = 6 \end{array}$$

2. ANS:

-8

$$-9r = 72$$

$$\begin{array}{r} \frac{-9r}{-9} = \frac{72}{-9} \\ \hline r = -8 \end{array}$$

3. ANS:

-2

$$28 = -14x$$

$$\begin{array}{r} \frac{-14x}{-14} = \frac{28}{-14} \\ \hline -2 = x \end{array}$$

$$x = -2$$

4. ANS:

-12

$$3y = -36$$

$$\begin{array}{r} \frac{3y}{3} = \frac{-36}{3} \\ \hline y = -12 \end{array}$$

5. ANS:

$$-9$$

$$-90 = 10y$$

$$\frac{-90}{10} = \frac{10y}{10}$$

$$-9 = y$$

$$y = -9$$

6. ANS:

$$9$$

$$-4m = -36$$

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

$$m = 9$$

7. ANS:

$$27$$

$$\frac{m}{9} = 3$$

$$9 \cdot \frac{m}{9} = 3 \cdot 9$$

$$m = 27$$

8. ANS:

$$-16$$

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

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

$$x = -16$$

9. ANS:

$$-99$$

$$\frac{a}{-9} = 11$$

$$-9 \cdot \frac{a}{-9} = 11 \cdot (-9)$$

$$a = -99$$

10. ANS:

$$-10$$

$$\frac{a}{5} = 2$$

$$-5 \cdot \left(-\frac{a}{5}\right) = 2 \cdot (-5)$$

$$a = -10$$

11. ANS:

45

$$\frac{t}{-3} = -15$$

$$-3 \cdot \frac{t}{-3} = -15 \cdot (-3)$$

$$t = 45$$

12. ANS:

32

$$\frac{y}{8} = -4$$

$$-8 \cdot \left(-\frac{y}{8}\right) = -4 \cdot (-8)$$

$$y = 32$$