

Multi-Step Equations**Solve for the Variable.**

1. $x + 3 = -10$

2. $5 + y = 15$

3. $3x + 7 = 10$

4. $18 = 3x - 9$

Solve for y.

5. $3x + y = 6$

7. $2x + y = -4$

9. $-4x + 2y = 16$

6. $4x - y = 5$

8. $3x - 4y = 12$

10. $x - 3y = -9$

Use the equations to solve for the variable stated.

11. $d = rt$

a. for r b. for t

12. $y = mx + b$

a. for m b. for b c. for x

13. $f = ma$

a. for m b. for a

14. $e = f + gh$

a. for g

15. $x = \frac{3}{4}(y - 8)$

a. for y

16. $v = \frac{d}{t}$

a. for t b. for d c. for v

$$17. a = \frac{v_2 - v_1}{t}$$

a. for t

$$18. KE = \frac{1}{2}mv^2$$

a. for m

$$19. jk + 6k = 15$$

a. for k

$$20. m(a + b) = w$$

a. for a

$$21. n - (4w + q) = p$$

a. for w

$$22. p(7m - q) + z = r$$

a. for m