

Algebra 1**Section 8 Literal Equations WS 3**

Name _____

Date _____ Period _____

Solve for the indicated variable.

1. $P = IRT$ for T

2. $A = 2L + W$ for W

3. $y = 5x - 6$ for x

4. $2x - 3y = 8$ for y

5. $\frac{x+y}{3} = 5$ for x

6. $y = mx + b$ for b

7. $ax + by = c$ for y

8. $A = \frac{1}{2}h(b+c)$ for b

9. $V = LWH$ for L

10. $W = 4\pi r$ for r

11. $V = \pi r^2 h$ for h

12. $7x - y = 14$ for x

$$13. A = \frac{x+y}{2} \quad \text{for } y$$

$$14. R = \frac{E}{I} \quad \text{for } I$$

$$15. x = \frac{yz}{6} \quad \text{for } z$$

$$16. A = \frac{r}{2L} \quad \text{for } L$$

$$17. F = \frac{a+b+c}{3} \quad \text{for } b$$

$$18. 12x - 4y = 20 \quad \text{for } y$$

$$19. x = \frac{2y-z}{4} \quad \text{for } z$$

$$20. P = \frac{R-C}{N} \quad \text{for } R$$

$$1. T = \frac{P}{IR}$$

$$2. W = \frac{A}{2} - L$$

$$3. x = \frac{1}{5}y + \frac{6}{5}$$

$$4. y = -\frac{8}{3} + \frac{2}{3}x$$

$$5. x = 15 - y$$

$$6. b = y - mx$$

$$7. y = \frac{c}{b} - \frac{ax}{b}$$

$$8. b = \frac{2A}{h} - c$$

$$9. L = \frac{V}{WH}$$

$$10. r = \frac{W}{4\pi}$$

$$11. h = \frac{V}{\pi r^2}$$

$$12. x = 2 + \frac{1}{7}y$$

$$13. y = 2A - x$$

$$14. I = \frac{E}{R}$$

$$15. z = \frac{6x}{y}$$

$$16. L = \frac{r}{2A}$$

$$17. b = 3F - a - c$$

$$18. y = 3x - 5$$

$$19. z = 2y - 4x$$

$$20. R = PN + C$$