GSE Algebra I | Unit 2 – Linear Equations | 2.3 - Practice

Name: Guide Date: _____

PRACTICE: Solving for Missing Variable

Rewrite each equation in terms of the indicated (variable).

1. $P = IRT$ ***(T)***

$\frac{P}{IR} = \frac{IRT}{IR}$

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

2. $P = 2(L + W)$ ***(W)***

3. $\frac{x+y}{3} = 5$ ***(x)***

$\cdot 3 \quad \cdot 3$

$x + y = 15$

$-y \quad -y$

$x = -y + 15$

4. $y = mx + b$ ***(b)***

5. $ax + by = c$ ***(y)***

$-ax \quad -ax$

$by = -ax + c$

$\frac{by}{b} = \frac{-ax+c}{b}$

$y = \frac{-ax+c}{b}$

6. $2x - 3y = 8$ ***(x)***

7. $P = 2L + 2W$ ***(W)***

$-2L \quad -2L$

$-2L + P = 2W$

$\frac{-2L}{2} + \frac{P}{2} = \frac{2W}{2}$

$-L + \frac{P}{2} = W$

8. $S = 2\pi rh$ ***(h)***

9. $A = \frac{bh}{2}$ ***(b)***

$\cdot 2 \quad \cdot 2$

$2A = bh$

$\frac{2A}{h} = \frac{bh}{h}$

$b = \frac{2A}{h}$

10. $A = \frac{a+b+c}{3}$

Review

11. Identify each for $2x^2 - 3x + 8$

Term(s): Coefficient(s): Constant(s):

12. Write an expression with 3 terms

13. Which word is NOT another word that means to divide?

A. Divide by B. Difference C. Half D. Quotient

14. What is the first step to solve this equation? $\frac{x+8}{2} = 5$

A. Subtract 8 B. Subtract 2 C. Multiply by 2 D. Multiply by 5

15. Solve $\frac{x+8}{2} = 5$

A. $x = -6$ B. $x = -5$ C. $x = 2$ D. $x = 18$

16. Solve $2 = -4n - 10$

A. $n = -3$ B. $n = -2$ C. $n = 2$ D. $n = 3$

17. Solve $22 - 2y = -6(y + 1)$

A. $y = -7$ B. $y = -4$ C. $y = 4$ D. $y = 7$