QUIZ 1A (1.1-1.3)

Name:_____ Date: _____ Score: _____

Evaluate.

1. mn for $m = 3$ and $n = 7$

2. $\frac{a+b}{2a}$ for $a = 5$ and $b = 15$

3. $4x^2$ for $x = 3$

4. $(5n)^2$ for $n = 6$

Simplify.

5. $18 \times 2 \div 9 - 3$

6. $\frac{3pq}{6q}$

Write an equivalent expression.

7. $\frac{y}{10}$ Use $\frac{z}{z}$ for 1

Use the commutative property to write an equivalent expression.

8. $a + b$

Write using exponential notation.

9. $5 \cdot m \cdot m \cdot m \cdot m$

Write with a single exponent.

10. $\frac{10^5}{10^3}$

QUIZ 1B (1.4-1.7)

Name:_____ Date: _____ Score: _____

Use the associative property to write an equivalent expression.

1. $(5 + x) + y$

Evaluate.

2. $(12 - w)^3$ for $w = 7$

3. $\frac{x + y}{4}$ when $y = 2$ and $x = 14$

Use the distributive property to write an equivalent expression.

4. $5(6m + 7)$

Factor.

5. $9a + 27b + 81$

Simplify. (Collect like terms.)

6. $6z + 3k + 9z$

7. $8(a + b) + 4(a + 2b)$

Write as an algebraic expression.

8. 4 less than d

Tell what can be done to each side of the equation to get the variable alone on one side of the equal sign.

9. $g + 34 = 60$

10. $\frac{t}{8} = 12$

TEST 1

Name:_____ Date: _____ Score: _____

Evaluate.

1. $p(6 + q)$ for $p = 3$ and $q = 5$

2. $b^4 + 3$ for $b = 2$

3. $(6 + a) \cdot (b - 4)$ for $a = 8$ and $b = 6$

4. $(3x)^3 + 4$ for $x = 2$

Simplify.

5. $15 \div 3 + 6 \cdot 8$

6. $16 \div 8 + 8$

7. $\frac{9pq}{72p}$

Use the commutative property to write an equivalent expression.

8. $a + 6$

Write an equivalent expression.

9. $\frac{2x}{y}$ Use $\frac{z}{z}$ for 1

Write using exponential notation.

10. $4 \cdot y \cdot y \cdot y$

Use the associative property to write an equivalent expression.

11. $(7 \cdot y) \cdot x$

Use the distributive property to write an equivalent expression.

12. $6(4y + 3)$

Factor.

13. $4 + 12b + 36a$

Collect like terms.

14. $15m^2 + 12m + 4m^2$

Write as an algebraic expression.

15. the sum of x and y

16. the product of 5 and w

17. Suppose a was Robert's age 12 years ago. What is his age now?

Each pair of equations is equivalent. What was done to the first equation to get the second one?

18. $2x - 8 = 20$
$2x - 13 = 15$

19. $\frac{r}{5} = 10$
$2r = 100$

Solve.

20. Find the ***distance*** (d) traveled by a train moving at the rate (r) of 50 mi/hr for the time (t) of 3 hr, using the formula $d = rt$.