1   Chapter 1 Test, Form 2D

SCORE _____

1. Evaluate $\dfrac{2x^2 + 5}{2y^2 - 2}$ if $x = 2.5$ and $y = -1.5$.

    1. _____

2. Evaluate $\dfrac{5a - b^2}{3c}$ if $a = 4$, $b = 3$, and $c = 2$.

    2. _____

For Questions 3 and 4, evaluate each expression if $a = 3.5$ and $b = -10$.

3. $-|b + 2a|$

    3. _____

4. $|-3 - a| - \left|\dfrac{b}{2}\right|$

    4. _____

5. Use $I = prt$, the formula for simple interest over t years, to find I when $p = \$2000$, $r = 6\%$, and $t = 18$ months.

    5. _____

Name the sets of numbers to which each number belongs.

6. $\sqrt{16}$

    6. _____

7. -2.5

    7. _____

8. $\dfrac{7}{9}$

    8. _____

For Questions 9 and 10, name the property illustrated by each equation.

9. $3ab + (-3ab) = 0$

    9. _____

10. $1xyz = xyz$

    10. _____

11. Simplify $\dfrac{1}{5}(10x - 15) + 4(2x - 5)$.

    11. _____

12. Write an algebraic expression to represent the verbal expression *five times the sum of seven and a number*.

    12. _____

Solve each equation.

13. $5n - 3 = 12$

    13. _____

14. $7x - 10 = 4x + 11$

    14. _____

15. $|6w + 3| = 9$

    15. _____

16. $|x - 4| - 5 = -2$

    16. _____

Assessment