NAME _____ DATE _____ PERIOD _____

Test, Form 3A

Evaluate each expression.

1. $|-28| - 28$ — **1.** 0

2. $51 - (-19)$ — **2.** 70

3. $18 + (-2) + (-7)$ — **3.** 9

4. $-|6| + |-14| - 20$ — **4.** −12

5. $6(-3)(-1)$ — **5.** 18

6. $25(-4)$ — **6.** −100

7. $-81 \div (-4 - 5)$ — **7.** 9

8. $-765 \div (-3)$ — **8.** 255

9. What is the value of $uv - |w|$, if $u = 12$, $v = -3$ and $w = -4$? — **9.** −40

10. Which symbol, $<$, $>$, or $=$ makes the statement true?

$$\frac{-25 \bullet 8}{4} \bullet -2(20)$$

10. <

11. What value of f makes $-35 - (-15) = f$ a true sentence? — **11.** −20

12. Ty saved up $300 to spend on vacation. If he spends $35 a week for three weeks, how much money does he have left? — **12.** $195

13. By the end of the first quarter of a football game, Al had gained 62 yards and had lost 21 yards. Al lost an additional 15 yards and gained 18 yards in the second quarter. Write an equation to represent his total yardage for the first half of the game. — **13.** 62 − 21 − 15 + 18 = 44 yd

14. An elevator takes passengers from the ground floor down to an underground parking garage. Where will the elevator be in relation to the ground floor after 15 seconds if it travels at a rate of 4 feet per second? Interpret the product. — **14.** −60 ft; The passengers will be 60 feet below the ground floor.

15. A hiker started the day at an elevation of 800 feet. He climbed 200 feet in elevation to his first rest stop, hiked down 400 feet in elevation to his second rest stop, and climbed 500 feet in elevation to his third rest stop. What is the average elevation of his three rest stops? — **15.** 900 ft

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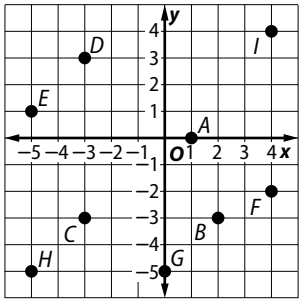
Test, Form 3A *(continued)*

16. Name the point and identify the quadrant represented by the ordered pair $(-5, 1)$ on the coordinate plane shown.



16. ***E*; quadrant II**

17. Identify the points on the coordinate plane in Exercise 16 that are located in Quadrant III.

17. ***C* and *H***

18. List 6 sets of integer values that satisfy $|x - y| < 6$.

18. **Sample answer: (2, 1); (4, 2); (−4, 1); (1, 0); (−1, 2); (−2; 0)**

19. The daily low temperatures in Manchester, New Hampshire were recorded for five consecutive days. What is the mean of the data?

$-13°F$, $2°F$, $-7°F$, $-16°F$, and $4°F$

19. **−6°F**

20. Determine whether the following statement is *true* or *false*. If *false*, give a counterexample. If *true*, give an example.

Division of integers is associative.

20. **False; sample answer: $12 \div (6 \div 2) \neq (12 \div 6) \div 2$. since $4 \neq 1$.**

21. Use a table of values to graph six sets of ordered integer pairs for the equation $y - 2x = 1$. Then, describe the graph. Can you predict how the graph of $y + 2x = 1$ would differ?

21. **See Answer Key.**