Mastery Test #1 Review #1

Write the phrase as an expression. Let x represent the number.

1 A number minus 11
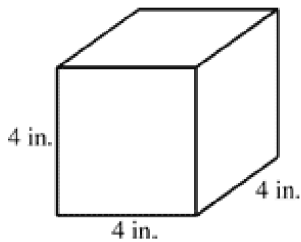
Evaluate the expression when $w = 14.5$, $x = 10$, $y = 3$, and $z = 2.5$.

2 $\dfrac{x}{z}$

3 $z + w$

4 The size of Alexandra Barkauska's garden is 12 square feet more than the size of Tyler Janssen's garden. Write an expression for the size of Alexandra's garden.

5 Use the formula $V = s^3$ to find the volume of the cube with side length s.

4 in.
4 in.
4 in.

Evaluate the expression.

6 $7(6 + 7) + 9$

7 $3[19 - (4 + 7)]$

Find the sum.

8 $-4 + (-14)$

9 $8 + (-11)$

10 $-6 + 2 + (-5)$

Evaluate the expression when $a = -6$, $b = -13$ and $c = 4$.

11 $a + 15$

12 $c + b$

13 $-13 + c + b$

Find the difference.

14 $15 - 26$

15 $-22 - (-7)$

16 $-14 - (-14)$

Find the change in temperature.

17 From $-13°C$ to $15°C$

18 From $-1°F$ to $-20°F$

Evaluate the expression when $x = -4$, $y = 10$, and $z = -9$.

19 $x - y - z$

20 $-5 - x - z$

21 Jamie dropped a quarter from a height of 6 feet above the ground into a wishing well whose bottom was 5 feet below ground level. Write an expression representing the change in elevation of the quarter. How far did the quarter travel?

Find the product.

22 $-4(-89)$

23 $-2(7)(-1)$
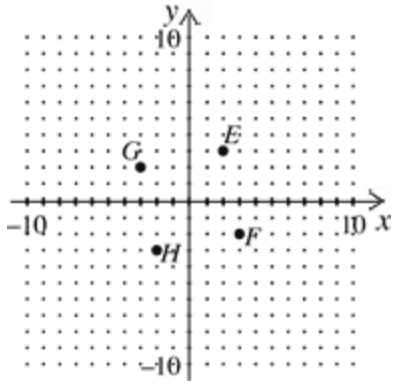
Find the quotient.

24 Divide.
$-12 \div (-4)$

25 $-435 \div (-5)$

26 You are playing a board game. All even numbers are positive, and all odd numbers are negative. A positive number indicates forward movement, and a negative number indicates backward movement. During your last 10 turns, you have gone back 90 spaces. If you spun the same number each time, which number did you spin?
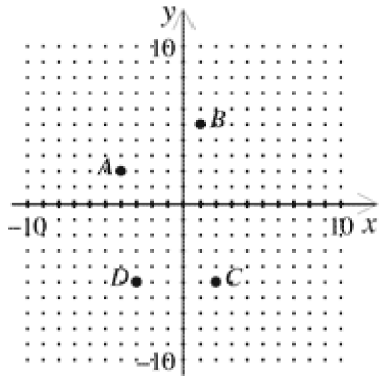
27 Name the point at $(3, -2)$.

28 Write the coordinates of the points A, B, C, and D.

Mastery Test #1 Review #1
Answer Section

1. $x - 11$
2. 4
3. 17
4. $x + 12$
5. 64 cubic inches
6. 100
7. 24
8. -18
9. -3
10. -9
11. 9
12. -9
13. -22
14. -11
15. -15
16. 0
17. 28°C
18. -19°F
19. -5
20. 8
21. $6 - (-5)$; 11 feet
22. 356
23. -70
24. 3
25. 87
26. -9
27. F
28. $(-4, 2), (1, 5), (2, -5), (-3, -5)$