

Mastery Test #2 Review

Evaluate the expression.

1 $3(5 + 3) + 9$

2 $4[17 - (6 + 3)]$

Find the sum.

3 $-2 + (-12)$

4 $8 + (-19)$

Find the difference.

5 $-22 - (-7)$

Find the change in temperature.

6 From -13°C to 15°C

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

7 $x - y - z$

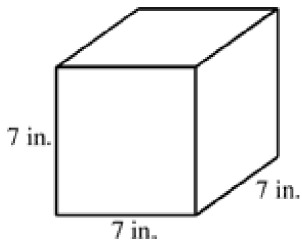
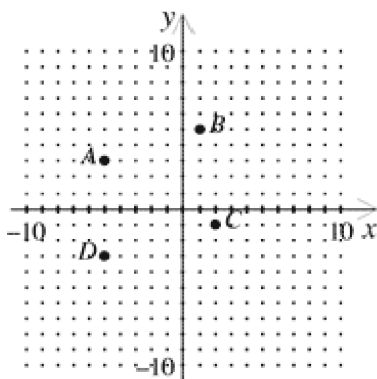
Find the product.

8 $-3(-92)$

9 $-6(5)(-1)$

Find the quotient.

10 $-204 \div (-4)$

11 Use the formula $V = s^3$ to find the volume of the cube with side length s .**12** 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 5 turns, you have gone back 15 spaces. If you spun the same number each time, which number did you spin?**13** Write the coordinates of the points A , B , C , and D .

Name: _____

ID: A

Simplify the expression.

14 $11 \cdot m \cdot 10$

Evaluate the expression when $x = 20$ and $y = -3$.

15 $3x + 2y + 2x$

Use the distributive property to write an equivalent variable expression.

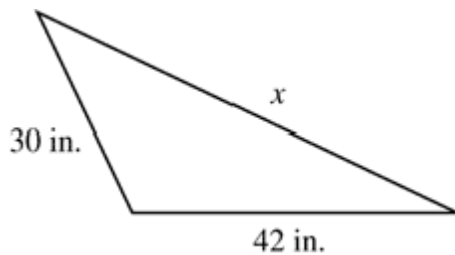
16 $3(3 - 2x)$

17 $6(x + 8)$

Simplify the expression.

18 $3x + 2(x - 5)$

- 19** The perimeter of the triangle is 131 inches. Write an equation to find the side length labeled x . Then solve the equation.



Name: _____

ID: A

Solve the equation. Check your solution.

20 $j - 7 = 14$

21 $11 = 7 + t$

- 22** A moving van weighing 13,500 pounds was loaded with furniture. The van stopped at a weigh station and the combined weight of the van and furniture was 14,955 pounds. How much did the furniture weigh?

Solve the equation.

23 $54 = 6y$

24 $\frac{b}{10} = 10$

Perform the indicated operation.

25 $642.79 + (-13.7)$

26 $4.06 \div 0.007$

27 $-4(1.94)$

Solve the equation.

28 $6g = 4.8$

Name: _____

ID: A

29 $\frac{k}{7} = 5.4$

**Mastery Test #2 Review
Answer Section**

- 1** 33
- 2** 32
- 3** -14
- 4** -11
- 5** -15
- 6** 28°C
- 7** -5
- 8** 276
- 9** -60
- 10** 51
- 11** 343 cubic inches
- 12** -3
- 13** $(-5, 3), (1, 5), (2, -1), (-5, -3)$
- 14** $110m$
- 15** 94
- 16** $9 - 6x$
- 17** $6x + 48$
- 18** $5x - 10$
- 19** $131 = x + 30 + 42; 59$ in.
- 20** 21
- 21** 4
- 22** 1455 pounds
- 23** 9
- 24** 100
- 25** 629.09
- 26** 580
- 27** -7.76
- 28** 0.8
- 29** 37.8