Name: _____

8th Grade Weekly Math Review Week 32

Solve each problem. Show your work.

1. $-12 + 4 =$ _____

2. $0 + 0 =$ _____

3. Kai walks 5 blocks east and then 12 blocks north. How far is he from where he started, in a straight line?

   Answer: _____

4. Two interior angles of a triangle are 79° and 21°. What is the exterior angle at the third vertex?

   Answer: _____

5. $g(x) = 2x^2 - 2$. $g(6) =$ _____

6. The remote interior angles of a triangle are $2x°$ and $(1x + 10)°$. The exterior angle is 58°. Find x.

   Answer: _____

7. $(-6, -7)$ to $(-11, -19)$ $d =$ _____

8. Two interior angles of a triangle are 71° and 31°. What is the exterior angle at the third vertex?

   Answer: _____

9. A cone has a radius 3 ft and a height of 8 ft. Find its volume. Use 3.14 for π.

   Answer: _____

10. A sphere has a diameter 14 in. Find its volume. Use 3.14 for π.

    Answer: _____

11. A sphere has a radius 10 m. Find its volume. Use 3.14 for π.

    Answer: _____

12. A cylinder has a diameter 6 m and a height of 20 m. Find its volume. Use 3.14 for π.

    Answer: _____

Name: **ANSWER KEY**

8th Grade Weekly Math Review Week 32

Solve each problem. Show your work.

1. $-12 + 4 =$ −8

2. $0 + 0 =$ 0

3. Kai walks 5 blocks east and then 12 blocks north. How far is he from where he started, in a straight line?

   Answer: 13 blocks

4. Two interior angles of a triangle are 79° and 21°. What is the exterior angle at the third vertex?

   Answer: 100°

5. $g(x) = 2x^2 - 2$. $g(6) =$ 70

6. The remote interior angles of a triangle are 2x° and (1x + 10)°. The exterior angle is 58°. Find x.

   Answer: x = 16

7. (−6, −7) to (−11, −19) d = 13

8. Two interior angles of a triangle are 71° and 31°. What is the exterior angle at the third vertex?

   Answer: 102°

9. A cone has a radius 3 ft and a height of 8 ft. Find its volume. Use 3.14 for π.

   Answer: 75.4 cubic ft

10. A sphere has a diameter 14 in. Find its volume. Use 3.14 for π.

    Answer: 1436.0 cubic in

11. A sphere has a radius 10 m. Find its volume. Use 3.14 for π.

    Answer: 4186.7 cubic m

12. A cylinder has a diameter 6 m and a height of 20 m. Find its volume. Use 3.14 for π.

    Answer: 565.2 cubic m