Name: _____

8th Grade Weekly Math Review Week 33

Solve each problem. Show your work.

1. $9x + 10 = 91$ x = _____

2. $8x - 6 = -70$ x = _____

3. (3, 3) to (−9, 19) d = _____

4. Two interior angles of a triangle are 37° and 74°. What is the exterior angle at the third vertex?

   Answer: _____

5. Two interior angles of a triangle are 54° and 80°. What is the exterior angle at the third vertex?

   Answer: _____

6. A TV screen is 16 in wide and 12 in tall. What is the diagonal length?

   Answer: _____

7. Is this relation a function? {(−2, −2), (−4, 0), (−3, 8), (2, −3)}

   Answer: _____

8. The remote interior angles of a triangle are 3x° and (3x + 10)°. The exterior angle is 40°. Find x.

   Answer: _____

9. A cylinder has a radius 7 cm and a height of 17 cm. Find its volume. Use 3.14 for π.

   Answer: _____

10. A cylinder has a radius 3 in and a height of 18 in. Find its volume. Use 3.14 for π.

    Answer: _____

11. A sphere has a diameter 14 m. Find its volume. Use 3.14 for π.

    Answer: _____

12. A cone has a radius 10 m and a height of 9 m. Find its volume. Use 3.14 for π.

    Answer: _____

Name: **ANSWER KEY**

8th Grade Weekly Math Review Week 33

Solve each problem. Show your work.

1. $9x + 10 = 91$ x = 9

2. $8x - 6 = -70$ x = −8

3. (3, 3) to (−9, 19) d = 20

4. Two interior angles of a triangle are 37° and 74°. What is the exterior angle at the third vertex?

   Answer: 111°

5. Two interior angles of a triangle are 54° and 80°. What is the exterior angle at the third vertex?

   Answer: 134°

6. A TV screen is 16 in wide and 12 in tall. What is the diagonal length?

   Answer: 20 in

7. Is this relation a function? {(−2, −2), (−4, 0), (−3, 8), (2, −3)}

   Answer: yes

8. The remote interior angles of a triangle are 3x° and (3x + 10)°. The exterior angle is 40°. Find x.

   Answer: x = 5

9. A cylinder has a radius 7 cm and a height of 17 cm. Find its volume. Use 3.14 for π.

   Answer: 2615.6 cubic cm

10. A cylinder has a radius 3 in and a height of 18 in. Find its volume. Use 3.14 for π.

    Answer: 508.7 cubic in

11. A sphere has a diameter 14 m. Find its volume. Use 3.14 for π.

    Answer: 1436.0 cubic m

12. A cone has a radius 10 m and a height of 9 m. Find its volume. Use 3.14 for π.

    Answer: 942.0 cubic m