Name: _____

8th Grade Weekly Math Review Week 30

Solve each problem. Show your work.

1. $3(x + 6) =$ _____

2. $5x + 7 = -3 \quad x =$ _____

3. $\frac{x}{4} + 3 = 8 \quad x =$ _____

4. $(-4)^0 =$ _____

5. (5, 0) and (3, 1) m = _____

6. √11 is between which two whole numbers?

Answer: _____

7. 0.00006 = _____

8. Triangle A(−6, −5), B(−4, −4), C(2, 6) is translated 2 right and 5 up. Give the coordinates of the image.

A′B′C′: _____

9. (−2, 3) to (1, −1) d = _____

10. (0, −1) to (−16, −13) d = _____

11. A 17 ft ladder leans against a wall. Its top reaches 15 ft up the wall. How far is the base from the wall?

Answer: _____

12. Can a triangle with sides 8, 6 and 10 be a right triangle? Show why.

Answer: _____

Name: **ANSWER KEY**

8th Grade Weekly Math Review Week 30

Solve each problem. Show your work.

1. $3(x + 6) =$ $3x + 18$

2. $5x + 7 = -3 \quad x =$ -2

3. $\frac{x}{4} + 3 = 8 \quad x =$ 20

4. $(-4)^0 =$ 1

5. (5, 0) and (3, 1) $\quad m =$ $-\frac{1}{2}$

6. √11 is between which two whole numbers?

   Answer: 3 and 4

7. $0.00006 =$ 6×10^{-5}

8. Triangle A(−6, −5), B(−4, −4), C(2, 6) is translated 2 right and 5 up. Give the coordinates of the image.

   A′B′C′: A′(−4, 0), B′(−2, 1), C′(4, 1

9. (−2, 3) to (1, −1) $\quad d =$ 5

10. (0, −1) to (−16, −13) $\quad d =$ 20

11. A 17 ft ladder leans against a wall. Its top reaches 15 ft up the wall. How far is the base from the wall?

    Answer: 8 ft

12. Can a triangle with sides 8, 6 and 10 be a right triangle? Show why.

    Answer: yes, $8^2 + 6^2 = 10^2$