Name: _____

8th Grade Weekly Math Review Week 28

Solve each problem. Show your work.

1. $8x - 3 = 37$ x = _____

2. $7x + 8x - 7 =$ _____

3. Rectangle A is 8 by 8. Rectangle B is 32 by 32. What is the scale factor from A to B?

   Answer: _____

4. Angle A = 27°, Angle B = 66°. Angle C = ___

5. $f(x) = -4x - 4$. $f(-3) =$ _____

6. Solve the system: $y = 2x + 3$ and $3x + 2y = -1$

   Solution: _____

7. Solve the system: $4x + y = 18$ and $x - y = -3$

   Solution: _____

8. $(3^6)^5 =$ _____

9. A square garden has sides of 20 m. How long is a path along the diagonal? Round to the nearest tenth.

   Answer: _____

10. Can a triangle with sides 6, 8 and 9 be a right triangle? Show why.

    Answer: _____

11. A ramp rises 8 ft over a horizontal distance of 15 ft. How long is the ramp?

    Answer: _____

12. (−2, −4) to (13, −24) d = _____

Name: **ANSWER KEY**

8th Grade Weekly Math Review Week 28

Solve each problem. Show your work.

1. $8x - 3 = 37$ x = 5

2. $7x + 8x - 7 =$ 15x − 7

3. Rectangle A is 8 by 8. Rectangle B is 32 by 32. What is the scale factor from A to B?

   Answer: 4

4. Angle A = 27°, Angle B = 66°. Angle C = 87

5. f(x) = −4x − 4. f(−3) = 8

6. Solve the system: y = 2x + 3 and 3x + 2y = −1

   Solution: (−1, 1)

7. Solve the system: 4x + y = 18 and x − y = −3

   Solution: (3, 6)

8. $(3^6)^5 = 3^{30}$

9. A square garden has sides of 20 m. How long is a path along the diagonal? Round to the nearest tenth.

   Answer: 28.3 m

10. Can a triangle with sides 6, 8 and 9 be a right triangle? Show why.

    Answer: no, 100 ≠ 81

11. A ramp rises 8 ft over a horizontal distance of 15 ft. How long is the ramp?

    Answer: 17 ft

12. (−2, −4) to (13, −24) d = 25