Name: _____

8th Grade Weekly Math Review Week 29

Solve each problem. Show your work.

1. $3x + 2 = -19$ x = _____

2. $6x + 1x - 6 =$ _____

3. √39 is between which two whole numbers?

Answer: _____

4. Angle A = 22°, Angle B = 41°. Angle C = ___

5. $7 \times 10^{-2} =$ _____

6. Angle A = 30°, Angle B = 41°. Angle C = ___

7. f(x) = 3x − 2. If f(x) = 16, x = _____

8. Rectangle A is 16 by 10. Rectangle B is 8 by 5. What is the scale factor from A to B?

Answer: _____

9. (−7, −7) to (13, 8) d = _____

10. Can a triangle with sides 3, 4 and 5 be a right triangle? Show why.

Answer: _____

11. Can a triangle with sides 12, 5 and 13 be a right triangle? Show why.

Answer: _____

12. A square garden has sides of 12 m. How long is a path along the diagonal? Round to the nearest tenth.

Answer: _____

Name: **ANSWER KEY**

8th Grade Weekly Math Review Week 29

Solve each problem. Show your work.

1. $3x + 2 = -19$ x = −7

2. $6x + 1x - 6 =$ 7x − 6

3. √39 is between which two whole numbers?

Answer: 6 and 7

4. Angle A = 22°, Angle B = 41°. Angle C = 11

5. $7 \times 10^{-2} =$ 0.07

6. Angle A = 30°, Angle B = 41°. Angle C = 10

7. f(x) = 3x − 2. If f(x) = 16, x = 6

8. Rectangle A is 16 by 10. Rectangle B is 8 by 5. What is the scale factor from A to B?

Answer: 1/2

9. (−7, −7) to (13, 8) d = 25

10. Can a triangle with sides 3, 4 and 5 be a right triangle? Show why.

Answer: yes, $3^2 + 4^2 = 5^2$

11. Can a triangle with sides 12, 5 and 13 be a right triangle? Show why.

Answer: yes, $12^2 + 5^2 = 13^2$

12. A square garden has sides of 12 m. How long is a path along the diagonal? Round to the nearest tenth.

Answer: 17.0 m