Name: _____

8th Grade Weekly Math Review Week 25

Solve each problem. Show your work.

1. $3 + 2 =$ _____

2. $0 \times 2 =$ _____

3. cube root of 27 = _____

4. $f(x) = 2x + 1$. If $f(x) = -3$, $x =$ _____

5. Triangle A(3, −6), B(0, −4), C(−5, 6) is reflected over the y-axis. Give the coordinates of the image.

   A′B′C′: _____

6. (6, −18) and (−2, 6) y = = _____

7. $x^2 = 144$ x = _____

8. Linear or nonlinear? $y = 3x + 2$

   Answer: _____

9. Rectangle A is 4 by 6. Rectangle B is 12 by 18. What is the scale factor from A to B?

   Answer: _____

10. Triangle ABC ~ triangle DEF. AB = 3, BC = 4, CA = 5 and DE = 6. Find EF and FD.

    Answer: _____

11. Rectangle A is 4 by 10. Rectangle B is 6 by 15. What is the scale factor from A to B?

    Answer: _____

12. Triangle ABC ~ triangle DEF. AB = 8, BC = 15, CA = 17 and DE = 16. Find EF and FD.

    Answer: _____

Name: **ANSWER KEY**

8th Grade Weekly Math Review Week 25

Solve each problem. Show your work.

1. $3 + 2 =$ 5

2. $0 \times 2 =$ 0

3. cube root of 27 = 3

4. $f(x) = 2x + 1$. If $f(x) = -3$, $x =$ −2

5. Triangle A(3, −6), B(0, −4), C(−5, 6) is reflected over the y-axis. Give the coordinates of the image.

   A′B′C′: A′(−3, −6), B′(0, −4), C′(5, 6)

6. (6, −18) and (−2, 6) $y =$ = −3x

7. $x^2 = 144$ $x =$ ±12

8. Linear or nonlinear? $y = 3x + 2$

   Answer: linear

9. Rectangle A is 4 by 6. Rectangle B is 12 by 18. What is the scale factor from A to B?

   Answer: 3

10. Triangle ABC ~ triangle DEF. AB = 3, BC = 4, CA = 5 and DE = 6. Find EF and FD.

    Answer: EF = 8, FD = 10

11. Rectangle A is 4 by 10. Rectangle B is 6 by 15. What is the scale factor from A to B?

    Answer: 1 1/2

12. Triangle ABC ~ triangle DEF. AB = 8, BC = 15, CA = 17 and DE = 16. Find EF and FD.

    Answer: EF = 30, FD = 34