Name: _____

8th Grade Weekly Math Review Week 31

Solve each problem. Show your work.

1. $6 \times 4 =$ _____

2. $6x + 3 = -33$ $x =$ _____

3. Is this relation a function? {(0, −3), (−5, 4), (2, 0), (4, 9)}

   Answer: _____

4. Solve the system: $y = 2x + 8$ and $x - 2y = -4$

   Solution: _____

5. $x^3 = 125$ $x =$ _____

6. $g(x) = 2x^2 - 5$. $g(-5) =$ _____

7. Angle A = 68°, Angle B = 84°. Angle C = ____

8. Solve the system: $2x + 4y = 0$ and $3x - 4y = -10$

   Solution: _____

9. A rectangular field is 9 m by 7 m. How long is the diagonal? Round to the nearest tenth.

   Answer: _____

10. (0, 0) to (12, 5) $d =$ _____

11. (−4, −4) to (−13, −16) $d =$ _____

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

    Answer: _____

Name: **ANSWER KEY**

8th Grade Weekly Math Review Week 31

Solve each problem. Show your work.

1. $6 \times 4 =$ 24

2. $6x + 3 = -33$ $x =$ −6

3. Is this relation a function? {(0, −3), (−5, 4), (2, 0), (4, 9)}

   Answer: yes

4. Solve the system: $y = 2x + 8$ and $x - 2y = -4$

   Solution: (−4, 0)

5. $x^3 = 125$ $x =$ 5

6. $g(x) = 2x^2 - 5$. $g(-5) =$ 45

7. Angle A = 68°, Angle B = 84°. Angle C = ~~28°~~10

8. Solve the system: $2x + 4y = 0$ and $3x - 4y$

   Solution: (−2, 1)

9. A rectangular field is 9 m by 7 m. How long is the diagonal? Round to the nearest tenth.

   Answer: 11.4 m

10. (0, 0) to (12, 5) d = 13

11. (−4, −4) to (−13, −16) d = 15

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

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