Name: _____

8th Grade Weekly Math Review Week 36

Solve each problem. Show your work.

1. $4 \times 8 =$ _____

2. $-9 + 3 =$ _____

3. $3.6 \times 10^{-4} =$ _____

4. $x^3 = 8 \quad x =$ _____

5. Solve the system: $x + 3y = 9$ and $2x - 3y = -18$

   Solution: _____

6. A cylinder has a diameter 14 ft and a height of 14 ft. Find its volume. Use 3.14 for π.

   Answer: _____

7. √50 is between which two whole numbers?

   Answer: _____

8. A cylinder has a radius 8 in and a height of 19 in. Find its volume. Use 3.14 for π.

   Answer: _____

9. A line of best fit for a car's value (thousands of $) after x years is y = -1.5x + 26. Predict y when x = 7.

   Answer: _____

10. Would a scatter plot of minutes of exercise and calories burned show a positive, negative or no association?

    Answer: _____

11. A line of best fit for a car's value (thousands of $) after x years is y = -1.5x + 42. Predict y when x = 11.

    Answer: _____

12. Would a scatter plot of shoe size and score on a math test show a positive, negative or no association?

    Answer: _____

Name: **ANSWER KEY**

8th Grade Weekly Math Review Week 36

Solve each problem. Show your work.

1. $4 \times 8 =$ 32

2. $-9 + 3 =$ −6

3. $3.6 \times 10^{-4} =$ 0.00036

4. $x^3 = 8$ $x =$ 2

5. Solve the system: x + 3y = 9 and 2x − 3y = −18

   Solution: (−3, 4)

6. A cylinder has a diameter 14 ft and a height of 14 ft. Find its volume. Use 3.14 for π.

   Answer: 2154.0 cubic ft

7. √50 is between which two whole numbers?

   Answer: 7 and 8

8. A cylinder has a radius 8 in and a height of 19 in. Find its volume. Use 3.14 for π.

   Answer: 3818.2 cubic in

9. A line of best fit for a car's value (thousands of $) after x years is y = -1.5x + 26. Predict y when x = 7.

   Answer: 15.5

10. Would a scatter plot of minutes of exercise and calories burned show a positive, negative or no association?

    Answer: positive

11. A line of best fit for a car's value (thousands of $) after x years is y = -1.5x + 42. Predict y when x = 11.

    Answer: 25.5

12. Would a scatter plot of shoe size and score on a math test show a positive, negative or no association?

    Answer: no association