Name: _____

7th Grade Weekly Math Review Week 29

Solve each problem. Show your work.

1. $\frac{1}{5} \div \frac{1}{6} =$ _____

2. $\frac{5}{8} \div \frac{1}{3} =$ _____

3. $4x - 14 = -6 \quad x =$ _____

4. Solve the inequality: $x + 5 \geq 23$

   Answer: _____

5. A bike wheel has a diameter of 23 inches. How far does it roll in one full turn? Use 3.14 for π.

   Answer: _____

6. A floor plan uses the scale 1 in = 2 ft. A room is 4 in long on the plan. How long is the actual room?

   Answer: _____

7. $-1 - 20 =$ _____

8. complement of $42° =$ _____

9. A triangular prism has right-triangle bases with sides 5, 12 and 13 in. It is 8 in long. What is its surface area?

   Answer: _____

10. A triangular prism has a triangle base with base 8 cm and height 2 cm. The prism is 14 cm long. What is its volume?

    Answer: _____

11. A triangular prism has a triangle base with base 3 cm and height 10 cm. The prism is 9 cm long. What is its volume?

    Answer: _____

12. A tent is a triangular prism. The triangle has base 10 ft and height 3 ft, and the tent is 12 ft long. How much space is inside?

    Answer: _____

Name: **ANSWER KEY**

7th Grade Weekly Math Review Week 29

Solve each problem. Show your work.

1. $\frac{1}{5} \div \frac{1}{6} =$ $1\frac{1}{5}$

2. $\frac{5}{8} \div \frac{1}{3} =$ $1\frac{7}{8}$

3. $4x - 14 = -6 \quad x =$ 2

4. Solve the inequality: $x + 5 \geq 23$

   Answer: $x \geq 18$

5. A bike wheel has a diameter of 23 inches. How far does it roll in one full turn? Use 3.14 for π.

   Answer: 72.22 in

6. A floor plan uses the scale 1 in = 2 ft. A room is 4 in long on the plan. How long is the actual room?

   Answer: 8 ft

7. $-1 - 20 =$ −21

8. complement of 42° = 48°

9. A triangular prism has right-triangle bases with sides 5, 12 and 13 in. It is 8 in long. What is its surface area?

   Answer: 300 sq in

10. A triangular prism has a triangle base with base 8 cm and height 2 cm. The prism is 14 cm long. What is its volume?

    Answer: 112 cubic cm

11. A triangular prism has a triangle base with base 3 cm and height 10 cm. The prism is 9 cm long. What is its volume?

    Answer: 135 cubic cm

12. A tent is a triangular prism. The triangle has base 10 ft and height 3 ft, and the tent is 12 ft long. How much space is inside?

    Answer: 180 cubic ft