

Scale and Proportion Practice

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5th Grade Math Practice

Name: _____

Date: _____

Solve each problem. Show your work when needed.

1. If a scale drawing has a scale of 1:50, what is the actual length of an object that is 3 inches in the drawing? (Answer in inches)

2. A map uses a scale of 1:1000. If two cities are 4 inches apart on the map, how far apart are they in reality? (Answer in miles)

3. Circle the greater ratio: 1::10:

5

or

2

4. What number comes next in the ratio? 3:6, 6:12, ____

5. A scale of 1:25 means 1 unit on the drawing is equal to 25 units in reality.

True False

6. Convert 1:200 to a fraction.

7. If a model car is built at a scale of 1:20, and the actual car is 40 feet long, how long is the model car? (Answer in feet)

8. Multiply the ratio 3:4 by 2. What is the resulting ratio?

9. A recipe uses a ratio of 2 cups of flour to 3 cups of sugar. If you use 8 cups of flour, how many cups of sugar do you need?

10. Which is a smaller ratio: 4::4?:

16

or

1

11. What number comes next in the sequence of ratios? 1:2, 2:4, 3:6, ____

12. If two ratios are equivalent, they must have the same scale.

True False

13. If a drawing of a garden is made to a scale of 1:25 and the drawing measures 5 feet by 10 feet, what are the actual dimensions of the garden in feet?

14. Simplify the ratio 10:25.

15. A triangle has sides measuring 3 cm, 4 cm, and 5 cm. If scaled up by a factor of 3, what will be the length of the longest side?

Answer Key

1. 150 2. 4000 3. 1:5 4. 12:24 5. True 6. 1/200 7. 2 8. 6:8 9. 12 10. 4:16 11. 4:8 12. True 13. 125 by 250 14. 2:5 15. 15