Multiplying by Powers of 10 Word Problems

1. The weight of a small coin is 0.02 grams. How much would 1,500 coins weigh?

2. A container holds 0.001 liters of milk. If you have 1,000 containers, how many liters of milk do you have?

3. The cost of a pencil is $0.50. If you buy 8 pencils, how much will you spend?

4. A marathon race is 42.195 kilometers long. If you run 50 marathons, how many kilometers will you run in total?

5. A student has a test score of 90 out of 100. If the test is worth 2,000 points, how many points did the student earn?

6. A train travels at a speed of 0.2 kilometers per minute. How far will it travel in 15 minutes?

7. The weight of a banana is 0.1 kilograms. How much would 20 bananas weigh?

8. A container holds 0.003 liters of juice. If you have 300 containers, how many liters of juice do you have?

9. The cost of a notebook is $1.25. If you buy 12 notebooks, how much will you spend?

10. A swimming pool contains 0.02 liters of water. How many milliliters of water does it hold?

11. A company produces 1,000 units of a product per day. If they work for 5 days, how many units will they produce?

12. The length of a wire is 0.05 meters. If it is stretched by a factor of 100, what is the new length?

13. A recipe calls for 0.001 grams of a rare spice. If you want to make 500 times the recipe, how much spice will you need?

14. The population of a town is 2,000. If the population increases by a factor of 10, what will be the new population?

15. A car travels at a speed of 0.01 kilometers per hour. How far will it travel in 1,000 hours?

16. The weight of a grape is 0.005 kilograms. How much would 200 grapes weigh?

17. A container holds 0.004 liters of milk. If you have 800 containers, how many liters of milk do you have?

18. The cost of a pen is $0.20. If you buy 15 pens, how much will you spend?

19. A marathon race is 42.195 kilometers long. If you run 20 marathons, how many kilometers will you run in total?

20. A student has a test score of 85 out of 100. If the test is worth 1,500 points, how many points did the student earn?