



Solving Decimal Word Problems with Power of Ten Name:

Solve each problem. Include as many decimal places as possible.

- 1) A bag of 100 cherries weighs 102.00 ounces. How many ounces does each cherry weigh?
- 2) An orchard owner is buying 6.85 acres of land to plant more trees. He figures he will plant 100 trees per acre. How many trees will he plant on his new land?
- 3) At the hardware store Maria bought a box with 100 nails and paid \$4.32 total. What is the price per nail?
- 4) A ticket to the carnival cost \$7.50. If there is going to be an estimated 10,000 people attending the carnival, how much money will be made in ticket sales?
- 5) Adam has put 100 hours into playing an online video game. He has paid \$53.50 over the course of the entire game. How much did he pay per hour played?
- 6) A fair food booth was having a sell on burger combos. Each combo cost \$5.28. If they estimate they will sell 10,000 combos over the course of the fair, how much money will they make?
- 7) George's water bill this month was \$15.56. Looking at the water bill, it says he used exactly 10,000 gallons of water. How much does he pay per gallon of water used?
- 8) A typical business card is 0 mm thick. If a company ordered 100 business cards and placed them all into a single stack how tall would the stack be (in mm)?
- 9) An internet company offers internet service with a cap of 100 gb for \$6.42 per month. What is the price per gb?
- 10) A spoonful of ice cream contains 0 mg of iron. How much iron would you consume if you ate 10 spoonfuls?
- 11) A toy company paid \$37,322.38 for a 30 second TV ad. Later they learned that an estimated 10,000 children had viewed the ad. How much money did they pay per viewer?
- 12) A round trip from Gwen's house to the grocery store is 5.40 miles. Gwen estimates since she moved into her house she has gone 1,000 times. How many miles would that mean Gwen has travelled?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



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Answers

1. **1.02**

2. **685**

3. **0.0432**

4. **75,000**

5. **0.535**

6. **52,800**

7. **0.001556**

8. **30.3**

9. **0.0642**

10. **0.08**

11. **3.732238**

12. **5,400**