



## Solving Decimal Word Problems with Power of Ten Name:

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

- 1) Luke's water bill this month was \$22.38. 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?
- 2) A ticket to the carnival cost \$5.90. If there is going to be an estimated 10,000 people attending the carnival, how much money will be made in ticket sales?
- 3) Oliver has put 100 hours into playing an online video game. He has paid \$104.00 over the course of the entire game. How much did he pay per hour played?
- 4) The cost to ship a single box across country is \$13.11. If a company shipped 1,000 boxes over the course of a year, how much did they spend on shipping?
- 5) An electrician paid \$108.00 total for 100 feet of wire. How much does he pay per foot of wire?
- 6) A candy store in the mall orders 1,000 boxes of candy a month. Each box of candy weighs 31.6 grams. What is the total weight (in grams) of the candy the store orders?
- 7) At the hardware store Debby bought a box with 1,000 nails and paid \$20.18 total. What is the price per nail?
- 8) A typical business card is 0 mm thick. If a company ordered 10,000 business cards and placed them all into a single stack how tall would the stack be (in mm)?
- 9) A bag of 1,000 cherries weighs 1,002.00 ounces. How many ounces does each cherry weigh?
- 10) An orchard owner is buying 4.56 acres of land to plant more trees. He figures he will plant 10 trees per acre. How many trees will he plant on his new land?
- 11) An internet company offers internet service with a cap of 1,000 gb for \$80.56 per month. What is the price per gb?
- 12) A round trip from Tiffany's house to the grocery store is 2.40 miles. Tiffany estimates since she moved into her house she has gone 100 times. How many miles would that mean Tiffany has travelled?

## Answers

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



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**Answers**

 1. **0.002238**

 2. **59,000**

 3. **1.04**

 4. **13,110**

 5. **1.08**

 6. **31,600**

 7. **0.02018**

 8. **3,030**

 9. **1.002**

 10. **45.6**

 11. **0.08056**

 12. **240**