



Solving Decimal Word Problems with Power of Ten Name:

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

- 1) An electrician paid \$105.00 total for 100 feet of wire. How much does he pay per foot of wire?
- 2) A spoonful of ice cream contains 0 mg of iron. How much iron would you consume if you ate 10 spoonfuls?
- 3) A toy company paid \$32,529.25 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?
- 4) The cost to ship a single box across country is \$10.75. If a company shipped 1,000 boxes over the course of a year, how much did they spend on shipping?
- 5) An internet company offers internet service with a cap of 100 gb for \$4.20 per month. What is the price per gb?
- 6) An orchard owner is buying 4.01 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?
- 7) Tiffany was looking on the internet for packing paper. She found a seller that was offering 100 linear feet of paper for \$7.00. What is the price per linear foot?
- 8) A round trip from Gwen's house to the grocery store is 7.10 miles. Gwen estimates since she moved into her house she has gone 100 times. How many miles would that mean Gwen has travelled?
- 9) Victor's water bill this month was \$22.90. 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?
- 10) A candy store in the mall orders 100 boxes of candy a month. Each box of candy weighs 39.0 grams. What is the total weight (in grams) of the candy the store orders?
- 11) A bag of 100 cherries weighs 102.00 ounces. How many ounces does each cherry weigh?
- 12) A ticket to the carnival cost \$7.60. If there is going to be an estimated 1,000 people attending the carnival, how much money will be made in ticket sales?

Answers

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



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Answers

 1. **1.05**

 2. **0.07**

 3. **3.252925**

 4. **10,750**

 5. **0.042**

 6. **40.1**

 7. **0.07**

 8. **710**

 9. **0.00229**

 10. **3,900**

 11. **1.02**

 12. **7,600**