



Solving Decimal Word Problems with Power of Ten Name:

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

- 1) Ned's water bill this month was \$20.93. 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 round trip from Janet's house to the grocery store is 9.90 miles. Janet estimates since she moved into her house she has gone 1,000 times. How many miles would that mean Janet has travelled?
- 3) Maria's mom decided to wallpaper the living room. At the store, the wallpaper was selling for \$19.58 for a roll with 100 linear feet. What is the price per linear foot of the wallpaper?
- 4) A candy store in the mall orders 100 boxes of candy a month. Each box of candy weighs 55.6 grams. What is the total weight (in grams) of the candy the store orders?
- 5) A toy company paid \$5,921.82 for a 30 second TV ad. Later they learned that an estimated 1,000 children had viewed the ad. How much money did they pay per viewer?
- 6) 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?
- 7) An internet company offers internet service with a cap of 1,000 gb for \$70.56 per month. What is the price per gb?
- 8) A fair food booth was having a sell on burger combos. Each combo cost \$7.27. If they estimate they will sell 10,000 combos over the course of the fair, how much money will they make?
- 9) A bag of 100 cherries weighs 110.00 ounces. How many ounces does each cherry weigh?
- 10) A spoonful of ice cream contains 0 mg of iron. How much iron would you consume if you ate 10 spoonfuls?
- 11) Emily was looking on the internet for packing paper. She found a seller that was offering 100 linear feet of paper for \$5.01. What is the price per linear foot?
- 12) The cost to ship a single box across country is \$13.91. If a company shipped 100 boxes over the course of a year, how much did they spend on shipping?

Answers

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



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Answers

1. **0.002093**
2. **9,900**
3. **0.1958**
4. **5,560**
5. **5.92182**
6. **59,000**
7. **0.07056**
8. **72,700**
9. **1.1**
10. **0.04**
11. **0.0501**
12. **1,391**