



Solving Decimal Word Problems with Power of Ten Name:

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

- 1) Kaleb's water bill this month was \$16.78. 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) An orchard owner is buying 4.86 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?
- 3) A toy company paid \$4,629.24 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?
- 4) A round trip from Nancy's house to the grocery store is 6.50 miles. Nancy estimates since she moved into her house she has gone 100 times. How many miles would that mean Nancy has travelled?
- 5) Janet was looking on the internet for packing paper. She found a seller that was offering 100 linear feet of paper for \$2.40. What is the price per linear foot?
- 6) A spoonful of ice cream contains 0 mg of iron. How much iron would you consume if you ate 10 spoonfuls?
- 7) An electrician paid \$1,008.00 total for 1,000 feet of wire. How much does he pay per foot of wire?
- 8) A candy store in the mall orders 100 boxes of candy a month. Each box of candy weighs 39.9 grams. What is the total weight (in grams) of the candy the store orders?
- 9) Robin's mom decided to wallpaper the living room. At the store, the wallpaper was selling for \$19.21 for a roll with 100 linear feet. What is the price per linear foot of the wallpaper?
- 10) The cost to ship a single box across country is \$13.43. If a company shipped 1,000 boxes over the course of a year, how much did they spend on shipping?
- 11) At the hardware store Emily bought a box with 1,000 nails and paid \$20.08 total. What is the price per nail?
- 12) 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)?

Answers

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



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Answers

1. **0.001678**

2. **48.6**

3. **4.62924**

4. **650**

5. **0.024**

6. **0.06**

7. **1.008**

8. **3,990**

9. **0.1921**

10. **13,430**

11. **0.02008**

12. **25.6**