Solving Decimal Word Problems with Power of Ten

Name: _____

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

1) Will's water bill this month was $20.52. 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?

1. _____

2) A typical business card is 0 mm thick. If a company ordered 1,000 business cards and placed them all into a single stack how tall would the stack be (in mm)?

2. _____

3. _____

3) Robin was looking on the internet for packing paper. She found a seller that was offering 100 linear feet of paper for $6.52. What is the price per linear foot?

4. _____

5. _____

4) A candy store in the mall orders 100 boxes of candy a month. Each box of candy weighs 48.5 grams. What is the total weight (in grams) of the candy the store orders?

6. _____

5) Maria's mom decided to wallpaper the living room. At the store, the wallpaper was selling for $19.19 for a roll with 100 linear feet. What is the price per linear foot of the wallpaper?

7. _____

8. _____

6) A round trip from Vanessa's house to the grocery store is 8.10 miles. Vanessa estimates since she moved into her house she has gone 1,000 times. How many miles would that mean Vanessa has travelled?

9. _____

10. _____

7) An electrician paid $109.00 total for 100 feet of wire. How much does he pay per foot of wire?

11. _____

8) An orchard owner is buying 9.46 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?

12. _____

9) An internet company offers internet service with a cap of 100 gb for $9.90 per month. What is the price per gb?

10) A ticket to the carnival cost $9.50. If there is going to be an estimated 1,000 people attending the carnival, how much money will be made in ticket sales?

11) A toy company paid $75,575.50 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 spoonful of ice cream contains 0 mg of iron. How much iron would you consume if you ate 10 spoonfuls?

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1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

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Answers

1. **0.002052**

2. **296**

3. **0.0652**

4. **4,850**

5. **0.1919**

6. **8,100**

7. **1.09**

8. **94.6**

9. **0.099**

10. **9,500**

11. **7.55755**

12. **0.07**