Solving Decimal Word Problems with Power of Ten

Name: _____

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

1) Sarah's mom decided to wallpaper the living room. At the store, the wallpaper was selling for $16.63 for a roll with 100 linear feet. What is the price per linear foot of the wallpaper?

1. _____

2) The cost to ship a single box across country is $14.02. If a company shipped 1,000 boxes over the course of a year, how much did they spend on shipping?

2. _____

3. _____

3) An internet company offers internet service with a cap of 100 gb for $8.80 per month. What is the price per gb?

4. _____

5. _____

4) 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)?

6. _____

5) An electrician paid $1,002.00 total for 1,000 feet of wire. How much does he pay per foot of wire?

7. _____

8. _____

6) A spoonful of ice cream contains 0 mg of iron. How much iron would you consume if you ate 100 spoonfuls?

9. _____

10. _____

7) A toy company paid $6,118.56 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?

11. _____

8) An orchard owner is buying 9.71 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) Cody has put 100 hours into playing an online video game. He has paid $79.57 over the course of the entire game. How much did he pay per hour played?

10) A fair food booth was having a sell on burger combos. Each combo cost $6.80. If they estimate they will sell 100 combos over the course of the fair, how much money will they make?

11) Paul's water bill this month was $24.82. 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?

12) A candy store in the mall orders 1,000 boxes of candy a month. Each box of candy weighs 40.5 grams. What is the total weight (in grams) of the candy the store orders?

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

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

1) Sarah's mom decided to wallpaper the living room. At the store, the wallpaper was selling for $16.63 for a roll with 100 linear feet. What is the price per linear foot of the wallpaper?

1. **0.1663**

2) The cost to ship a single box across country is $14.02. If a company shipped 1,000 boxes over the course of a year, how much did they spend on shipping?

2. **14,020**

3) An internet company offers internet service with a cap of 100 gb for $8.80 per month. What is the price per gb?

3. **0.088**

4) 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)?

4. **2,940**

5. **1.002**

5) An electrician paid $1,002.00 total for 1,000 feet of wire. How much does he pay per foot of wire?

6. **0.9**

7. **6.11856**

6) A spoonful of ice cream contains 0 mg of iron. How much iron would you consume if you ate 100 spoonfuls?

8. **97.1**

9. **0.7957**

7) A toy company paid $6,118.56 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?

10. **680**

11. **0.002482**

8) An orchard owner is buying 9.71 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. **40,500**

9) Cody has put 100 hours into playing an online video game. He has paid $79.57 over the course of the entire game. How much did he pay per hour played?

10) A fair food booth was having a sell on burger combos. Each combo cost $6.80. If they estimate they will sell 100 combos over the course of the fair, how much money will they make?

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