Solving Decimal Word Problems with Power of Ten   Name:
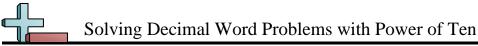
Solve each problem. Include as many decimal places as possible.

1) A round trip from Lana's house to the grocery store is 7.90 miles. Lana estimates since she moved into her house she has gone 1,000 times. How many miles would that mean Lana has travelled?

2) A toy company paid $5,613.48 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?

3) An internet company offers internet service with a cap of 100 gb for $3.30 per month. What is the price per gb?

4) 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?

5) A spoonful of ice cream contains 0.009 mg of iron. How much iron would you consume if you ate 100 spoonfuls?

6) At the hardware store Isabel bought a box with 1,000 nails and paid $20.16 total. What is the price per nail?

7) A bag of 100 cherries weighs 87.20 ounces. How many ounces does each cherry weigh?

8) A typical business card is 0.275 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)?

9) The cost to ship a single box across country is $14.56. If a company shipped 1,000 boxes over the course of a year, how much did they spend on shipping?

10) A candy store in the mall orders 10,000 boxes of candy a month. Each box of candy weighs 34.4 grams. What is the total weight (in grams) of the candy the store orders?

11) Gwen's mom decided to wallpaper the living room. At the store, the wallpaper was selling for $14.37 for a roll with 100 linear feet. What is the price per linear foot of the wallpaper?

12) An orchard owner is buying 3.43 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?

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

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

Solving Decimal Word Problems with Power of Ten

Name: **Answer Key**

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

	Answers

1) A round trip from Lana's house to the grocery store is 7.90 miles. Lana estimates since she moved into her house she has gone 1,000 times. How many miles would that mean Lana has travelled?

1. **7,900**

2) A toy company paid $5,613.48 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?

2. **5.61348**

3. **0.033**

3) An internet company offers internet service with a cap of 100 gb for $3.30 per month. What is the price per gb?

4. **7,600**

5. **0.9**

4) 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?

6. **0.02016**

7. **0.872**

5) A spoonful of ice cream contains 0.009 mg of iron. How much iron would you consume if you ate 100 spoonfuls?

8. **2,750**

6) At the hardware store Isabel bought a box with 1,000 nails and paid $20.16 total. What is the price per nail?

9. **14,560**

10. **344,000**

7) A bag of 100 cherries weighs 87.20 ounces. How many ounces does each cherry weigh?

11. **0.1437**

12. **34.3**

8) A typical business card is 0.275 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)?

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