Solving Decimal Word Problems with Power of Ten

Name:

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

1) 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?

2) At the hardware store Carol bought a box with 1,000 nails and paid $30.18 total. What is the price per nail?

3) Roger's water bill this month was $22.68. 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?

4) A bag of 100 cherries weighs 64.48 ounces. How many ounces does each cherry weigh?

5) 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?

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

7) Luke has put 100 hours into playing an online video game. He has paid $50.88 over the course of the entire game. How much did he pay per hour played?

8) A toy company paid $60,248.16 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?

9) Faye was looking on the internet for packing paper. She found a seller that was offering 100 linear feet of paper for $2.66. What is the price per linear foot?

10) The cost to ship a single box across country is $13.62. If a company shipped 1,000 boxes over the course of a year, how much did they spend on shipping?

11) 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)?

12) An orchard owner is buying 7.31 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?

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Math   www.CommonCoreSheets.com   6

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) 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?

1. **7,600**

2) At the hardware store Carol bought a box with 1,000 nails and paid $30.18 total. What is the price per nail?

2. **0.03018**

3. **0.002268**

3) Roger's water bill this month was $22.68. 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?

4. **0.6448**

5. **0.1663**

4) A bag of 100 cherries weighs 64.48 ounces. How many ounces does each cherry weigh?

6. **0.5**

7. **0.5088**

5) 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?

8. **6.024816**

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

9. **0.0266**

10. **13,620**

7) Luke has put 100 hours into playing an online video game. He has paid $50.88 over the course of the entire game. How much did he pay per hour played?

11. **29**

12. **73.1**

8) A toy company paid $60,248.16 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?

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Math   **Modified**   6
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