Solving Decimal Word Problems with Power of Ten

Name:

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

1) An internet company offers internet service with a cap of 100 gb for $6.60 per month. What is the price per gb?

1. _____

2) A fair food booth was having a sell on burger combos. Each combo cost $6.94. If they estimate they will sell 10,000 combos over the course of the fair, how much money will they make?

2. _____

3. _____

3) A bag of 100 cherries weighs 76.30 ounces. How many ounces does each cherry weigh?

4. _____

5. _____

4) A ticket to the carnival cost $2.00. If there is going to be an estimated 10,000 people attending the carnival, how much money will be made in ticket sales?

6. _____

5) A toy company paid $42,112.63 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?

7. _____

8. _____

6) At the hardware store Carol bought a box with 1,000 nails and paid $20.08 total. What is the price per nail?

9. _____

10. _____

7) An orchard owner is buying 5.62 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?

11. _____

8) A typical business card is 0.263 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)?
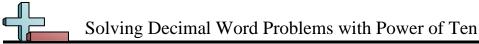
12. _____

9) Katie's mom decided to wallpaper the living room. At the store, the wallpaper was selling for $16.36 for a roll with 100 linear feet. What is the price per linear foot of the wallpaper?

10) A round trip from Nancy's house to the grocery store is 8.70 miles. Nancy estimates since she moved into her house she has gone 100 times. How many miles would that mean Nancy has travelled?

11) Gwen was looking on the internet for packing paper. She found a seller that was offering 1,000 linear feet of paper for $7.93. What is the price per linear foot?

12) Jerry has put 1,000 hours into playing an online video game. He has paid $644.48 over the course of the entire game. How much did he pay per hour played?

Math

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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.

Answers

1) An internet company offers internet service with a cap of 100 gb for $6.60 per month. What is the price per gb?

1. **0.066**

2) A fair food booth was having a sell on burger combos. Each combo cost $6.94. If they estimate they will sell 10,000 combos over the course of the fair, how much money will they make?

2. **69,400**

3. **0.763**

3) A bag of 100 cherries weighs 76.30 ounces. How many ounces does each cherry weigh?

4. **20,000**

5. **4.211263**

4) A ticket to the carnival cost $2.00. If there is going to be an estimated 10,000 people attending the carnival, how much money will be made in ticket sales?

6. **0.02008**

7. **56.2**

5) A toy company paid $42,112.63 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?

8. **26.3**

6) At the hardware store Carol bought a box with 1,000 nails and paid $20.08 total. What is the price per nail?

9. **0.1636**

10. **870**

7) An orchard owner is buying 5.62 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?

11. **0.00793**

12. **0.64448**

8) A typical business card is 0.263 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)?

9) Katie's mom decided to wallpaper the living room. At the store, the wallpaper was selling for $16.36 for a roll with 100 linear feet. What is the price per linear foot of the wallpaper?

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