Solving Decimal Word Problems with Power of Ten   Name:

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

1) A fair food booth was having a sell on burger combos. Each combo cost $8.16. If they estimate they will sell 1,000 combos over the course of the fair, how much money will they make?

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)?

3) A ticket to the carnival cost $3.00. If there is going to be an estimated 1,000 people attending the carnival, how much money will be made in ticket sales?

4) Robin was looking on the internet for packing paper. She found a seller that was offering 100 linear feet of paper for $5.29. What is the price per linear foot?

5) An orchard owner is buying 3.23 acres of land to plant more trees. He figures he will plant 100 trees per acre. How many trees will he plant on his new land?

6) A round trip from Debby's house to the grocery store is 2.90 miles. Debby estimates since she moved into her house she has gone 1,000 times. How many miles would that mean Debby has travelled?

7) A spoonful of ice cream contains 0 mg of iron. How much iron would you consume if you ate 10 spoonfuls?

8) At the hardware store Vanessa bought a box with 100 nails and paid $2.08 total. What is the price per nail?

9) An internet company offers internet service with a cap of 100 gb for $10.30 per month. What is the price per gb?

10) A candy store in the mall orders 10,000 boxes of candy a month. Each box of candy weighs 36.0 grams. What is the total weight (in grams) of the candy the store orders?

11) Adam's water bill this month was $23.45. 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 bag of 100 cherries weighs 73.14 ounces. How many ounces does each cherry weigh?

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								

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

1) A fair food booth was having a sell on burger combos. Each combo cost $8.16. If they estimate they will sell 1,000 combos over the course of the fair, how much money will they make?

1. **8,160**

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. **286**

3) A ticket to the carnival cost $3.00. If there is going to be an estimated 1,000 people attending the carnival, how much money will be made in ticket sales?

3. **3,000**

4. **0.0529**

4) Robin was looking on the internet for packing paper. She found a seller that was offering 100 linear feet of paper for $5.29. What is the price per linear foot?

5. **323**

6. **2,900**

5) An orchard owner is buying 3.23 acres of land to plant more trees. He figures he will plant 100 trees per acre. How many trees will he plant on his new land?

7. **0.06**

8. **0.0208**

6) A round trip from Debby's house to the grocery store is 2.90 miles. Debby estimates since she moved into her house she has gone 1,000 times. How many miles would that mean Debby has travelled?

9. **0.103**

7) A spoonful of ice cream contains 0 mg of iron. How much iron would you consume if you ate 10 spoonfuls?

10. **360,000**

11. **0.002345**

12. **0.7314**

8) At the hardware store Vanessa bought a box with 100 nails and paid $2.08 total. What is the price per nail?

9) An internet company offers internet service with a cap of 100 gb for $10.30 per month. What is the price per gb?

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