Solving Decimal Word Problems with Power of Ten   Name:

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

1) A candy store in the mall orders 100 boxes of candy a month. Each box of candy weighs 53.0 grams. What is the total weight (in grams) of the candy the store orders?
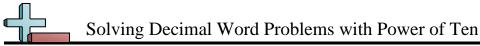
1. _____

2) A round trip from Katie's house to the grocery store is 7.20 miles. Katie estimates since she moved into her house she has gone 100 times. How many miles would that mean Katie has travelled?

2. _____

3. _____

3) Haley was looking on the internet for packing paper. She found a seller that was offering 100 linear feet of paper for $6.44. What is the price per linear foot?

4. _____

5. _____

4) An orchard owner is buying 3.86 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?

6. _____

5) A spoonful of ice cream contains 0.005 mg of iron. How much iron would you consume if you ate 10 spoonfuls?

7. _____

8. _____

6) At the hardware store Maria bought a box with 100 nails and paid $2.16 total. What is the price per nail?

9. _____

10. _____

7) Edward has put 100 hours into playing an online video game. He has paid $87.15 over the course of the entire game. How much did he pay per hour played?

11. _____

8) A typical business card is 0.283 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) A bag of 1,000 cherries weighs 801.60 ounces. How many ounces does each cherry weigh?

10) An internet company offers internet service with a cap of 100 gb for $10.20 per month. What is the price per gb?

11) A fair food booth was having a sell on burger combos. Each combo cost $8.57. If they estimate they will sell 100 combos over the course of the fair, how much money will they make?

12) Henry's water bill this month was $21.23. 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?

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

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	Answers

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Answers

1. **5,300**

2. **720**

3. **0.0644**

4. **38.6**

5. **0.05**

6. **0.0216**

7. **0.8715**

8. **28.3**

9. **0.8016**

10. **0.102**

11. **857**

12. **0.002123**

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