Solving Decimal Word Problems with Power of Ten

Name:

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

1) A bag of 1,000 cherries weighs 1,008.00 ounces. How many ounces does each cherry weigh?

2) An orchard owner is buying 5.51 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?

3) Dave has put 100 hours into playing an online video game. He has paid $32.64 over the course of the entire game. How much did he pay per hour played?

4) 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)?

5) Kaleb's water bill this month was $16.66. 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?

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

7) At the hardware store Emily bought a box with 1,000 nails and paid $40.40 total. What is the price per nail?

8) A round trip from Amy's house to the grocery store is 5.40 miles. Amy estimates since she moved into her house she has gone 100 times. How many miles would that mean Amy has travelled?

9) Haley's mom decided to wallpaper the living room. At the store, the wallpaper was selling for $12.68 for a roll with 100 linear feet. What is the price per linear foot of the wallpaper?

10) A ticket to the carnival cost $4.90. If there is going to be an estimated 10,000 people attending the carnival, how much money will be made in ticket sales?

11) A toy company paid $2,738.19 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?

12) A candy store in the mall orders 10,000 boxes of candy a month. Each box of candy weighs 55.6 grams. What is the total weight (in grams) of the candy the store orders?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

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

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Name: **Answer Key**

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

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Answers

1. 1.008
2. 55.1
3. 0.3264
4. 302
5. 0.001666
6. 0.08
7. 0.0404
8. 540
9. 0.1268
10. 49,000
11. 2.73819
12. 556,000

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11-12	8	0								