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 $3.06 per month. What is the price per gb?

2) A round trip from Olivia's house to the grocery store is 6.80 miles. Olivia estimates since she moved into her house she has gone 100 times. How many miles would that mean Olivia has travelled?

3) Robin's mom decided to wallpaper the living room. At the store, the wallpaper was selling for $10.24 for a roll with 100 linear feet. What is the price per linear foot of the wallpaper?

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

5) Edward has put 1,000 hours into playing an online video game. He has paid $723.60 over the course of the entire game. How much did he pay per hour played?

6) A candy store in the mall orders 1,000 boxes of candy a month. Each box of candy weighs 47.2 grams. What is the total weight (in grams) of the candy the store orders?

7) At the hardware store Katie bought a box with 1,000 nails and paid $20.20 total. What is the price per nail?

8) A ticket to the carnival cost $4.80. If there is going to be an estimated 10,000 people attending the carnival, how much money will be made in ticket sales?

9) A toy company paid $28,011.20 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?

10) A fair food booth was having a sell on burger combos. Each combo cost $6.83. If they estimate they will sell 10,000 combos over the course of the fair, how much money will they make?

11) A bag of 1,000 cherries weighs 1,005.00 ounces. How many ounces does each cherry weigh?

12) The cost to ship a single box across country is $11.66. If a company shipped 100 boxes over the course of a year, how much did they spend on shipping?

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								

Solving Decimal Word Problems with Power of Ten Name: **Answer Key**

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

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Answers

1. 0.0306
2. 680
3. 0.1024
4. 0.04
5. 0.7236
6. 47,200
7. 0.0202
8. 48,000
9. 2.80112
10. 68,300
11. 1.005
12. 1,166

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