Solving Decimal Word Problems with Power of Ten   Name:

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

1) Frank has put 1,000 hours into playing an online video game. He has paid $933.72 over the course of the entire game. How much did he pay per hour played?

2) The cost to ship a single box across country is $13.09. If a company shipped 100 boxes over the course of a year, how much did they spend on shipping?

3) A toy company paid $73,173.10 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?

4) A round trip from Katie's house to the grocery store is 7.70 miles. Katie estimates since she moved into her house she has gone 1,000 times. How many miles would that mean Katie has travelled?

5) An electrician paid $41.89 total for 100 feet of wire. How much does he pay per foot of wire?

6) A fair food booth was having a sell on burger combos. Each combo cost $5.79. If they estimate they will sell 10,000 combos over the course of the fair, how much money will they make?

7) 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)?

8) Debby's mom decided to wallpaper the living room. At the store, the wallpaper was selling for $11.15 for a roll with 100 linear feet. What is the price per linear foot of the wallpaper?

9) A bag of 1,000 cherries weighs 721.44 ounces. How many ounces does each cherry weigh?

10) Olivia was looking on the internet for packing paper. She found a seller that was offering 100 linear feet of paper for $3.23. What is the price per linear foot?

11) An orchard owner is buying 6.97 acres of land to plant more trees. He figures he will plant 1,000 trees per acre. How many trees will he plant on his new land?

12) An internet company offers internet service with a cap of 100 gb for $9.18 per month. What is the price per gb?

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								

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

1) Frank has put 1,000 hours into playing an online video game. He has paid $933.72 over the course of the entire game. How much did he pay per hour played?

1. **0.93372**

2) The cost to ship a single box across country is $13.09. If a company shipped 100 boxes over the course of a year, how much did they spend on shipping?

2. **1,309**

3. **7.31731**

3) A toy company paid $73,173.10 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?

4. **7,700**

5. **0.418912**

4) A round trip from Katie's house to the grocery store is 7.70 miles. Katie estimates since she moved into her house she has gone 1,000 times. How many miles would that mean Katie has travelled?

6. **57,900**

7. **259**

5) An electrician paid $41.89 total for 100 feet of wire. How much does he pay per foot of wire?

8. **0.1115**

6) A fair food booth was having a sell on burger combos. Each combo cost $5.79. If they estimate they will sell 10,000 combos over the course of the fair, how much money will they make?

9. **0.72144**

10. **0.0323**

7) 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)?

11. **6,970**

12. **0.0918**

8) Debby's mom decided to wallpaper the living room. At the store, the wallpaper was selling for $11.15 for a roll with 100 linear feet. What is the price per linear foot of the wallpaper?

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