Solving Decimal Word Problems with Power of Ten

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

Answers

1) At the hardware store Faye bought a box with 100 nails and paid $3.06 total. What is the price per nail?

1. _____

2) Jerry's water bill this month was $23.19. 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?

2. _____

3. _____

3) A bag of 100 cherries weighs 67.10 ounces. How many ounces does each cherry weigh?

4. _____

5. _____

4) A typical business card is 0 mm thick. If a company ordered 10,000 business cards and placed them all into a single stack how tall would the stack be (in mm)?

6. _____

7. _____

5) A fair food booth was having a sell on burger combos. Each combo cost $6.95. If they estimate they will sell 100 combos over the course of the fair, how much money will they make?

8. _____

6) A round trip from Nancy's house to the grocery store is 4.20 miles. Nancy estimates since she moved into her house she has gone 1,000 times. How many miles would that mean Nancy has travelled?

9. _____

10. _____

7) Amy was looking on the internet for packing paper. She found a seller that was offering 100 linear feet of paper for $8.45. What is the price per linear foot?

11. _____

12. _____

8) A candy store in the mall orders 10,000 boxes of candy a month. Each box of candy weighs 44.0 grams. What is the total weight (in grams) of the candy the store orders?

9) An internet company offers internet service with a cap of 100 gb for $3.24 per month. What is the price per gb?

10) Olivia's mom decided to wallpaper the living room. At the store, the wallpaper was selling for $16.42 for a roll with 100 linear feet. What is the price per linear foot of the wallpaper?

11) The cost to ship a single box across country is $13.59. If a company shipped 100 boxes over the course of a year, how much did they spend on shipping?

12) A toy company paid $9,688.98 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?

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.

Answers

1) At the hardware store Faye bought a box with 100 nails and paid $3.06 total. What is the price per nail?

1. **0.0306**

2) Jerry's water bill this month was $23.19. 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?

2. **0.002319**

3) A bag of 100 cherries weighs 67.10 ounces. How many ounces does each cherry weigh?

3. **0.671**

4. **2,650**

5. **695**

4) A typical business card is 0 mm thick. If a company ordered 10,000 business cards and placed them all into a single stack how tall would the stack be (in mm)?

6. **4,200**

7. **0.0845**

5) A fair food booth was having a sell on burger combos. Each combo cost $6.95. If they estimate they will sell 100 combos over the course of the fair, how much money will they make?

8. **440,000**

6) A round trip from Nancy's house to the grocery store is 4.20 miles. Nancy estimates since she moved into her house she has gone 1,000 times. How many miles would that mean Nancy has travelled?

9. **0.0324**

10. **0.1642**

7) Amy was looking on the internet for packing paper. She found a seller that was offering 100 linear feet of paper for $8.45. What is the price per linear foot?

11. **1,359**

12. **9.68898**

8) A candy store in the mall orders 10,000 boxes of candy a month. Each box of candy weighs 44.0 grams. What is the total weight (in grams) of the candy the store orders?

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