Solving Decimal Word Problems with Power of Ten Solve each problem. Include as many decimal places as possible.

\mathbf{A}	n	S	W	e	r	S

- 1) Paul's water bill this month was \$26.71. 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?
- A ticket to the carnival cost \$8.70. If there is going to be an estimated 1,000 people attending the carnival, how much money will be made in ticket sales?
- 3) A fair food booth was having a sell on burger combos. Each combo cost \$5.48. If they estimate they will sell 10,000 combos over the course of the fair, how much money will they make?
- A toy company paid \$2,323.00 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?
- 5) The cost to ship a single box across country is \$10.17. If a company shipped 100 boxes over the course of a year, how much did they spend on shipping?
- An internet company offers internet service with a cap of 100 gb for \$8.40 per month. What is the price per gb?
- At the hardware store Olivia bought a box with 1,000 nails and paid \$30.15 total. What is the price per nail?
- A round trip from Katie's house to the grocery store is 2.10 miles. Katie estimates since she moved into her house she has gone 100 times. How many miles would that mean Katie has travelled?

- An orchard owner is buying 5.34 acres of land to plant more trees. He figures he will plant 100 trees per acre. How many trees will he plant on his new land?

- 10) Sam has put 1,000 hours into playing an online video game. He has paid \$524.16 over the
- course of the entire game. How much did he pay per hour played?
- 11) Debby's mom decided to wallpaper the living room. At the store, the wallpaper was selling for \$12.19 for a roll with 100 linear feet. What is the price per linear foot of the wallpaper?
- A spoonful of ice cream contains 0 mg of iron. How much iron would you consume if you ate 100 spoonfuls?

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

1)	Paul's water bill this month was \$26.71. 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?

 0.00267°

<u>Answers</u>

- 2) A ticket to the carnival cost \$8.70. If there is going to be an estimated 1,000 people attending the carnival, how much money will be made in ticket sales?
- 3) A fair food booth was having a sell on burger combos. Each combo cost \$5.48. If they estimate they will sell 10,000 combos over the course of the fair, how much money will they make?
- A toy company paid \$2,323.00 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?
- 5) The cost to ship a single box across country is \$10.17. If a company shipped 100 boxes over the course of a year, how much did they spend on shipping?

- An internet company offers internet service with a cap of 100 gb for \$8.40 per month. What is the price per gb?

- At the hardware store Olivia bought a box with 1,000 nails and paid \$30.15 total. What is
- the price per nail?
- A round trip from Katie's house to the grocery store is 2.10 miles. Katie estimates since she moved into her house she has gone 100 times. How many miles would that mean Katie has travelled?

- An orchard owner is buying 5.34 acres of land to plant more trees. He figures he will plant 100 trees per acre. How many trees will he plant on his new land?

- 10) Sam has put 1,000 hours into playing an online video game. He has paid \$524.16 over the
- course of the entire game. How much did he pay per hour played?
- 11) Debby's mom decided to wallpaper the living room. At the store, the wallpaper was selling for \$12.19 for a roll with 100 linear feet. What is the price per linear foot of the wallpaper?
- A spoonful of ice cream contains 0 mg of iron. How much iron would you consume if you ate 100 spoonfuls?

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

1)	Paul's water bill this month was \$26.71. 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) A ticket to the carnival cost \$8.70. If there is going to be an estimated 1,000 people attending the carnival, how much money will be made in ticket sales?
- 3) A fair food booth was having a sell on burger combos. Each combo cost \$5.48. If they estimate they will sell 10,000 combos over the course of the fair, how much money will they make?
- **4)** A toy company paid \$2,323.00 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?
- 5) The cost to ship a single box across country is \$10.17. If a company shipped 100 boxes over the course of a year, how much did they spend on shipping?
- 6) An internet company offers internet service with a cap of 100 gb for \$8.40 per month. What is the price per gb?
- 7) At the hardware store Olivia bought a box with 1,000 nails and paid \$30.15 total. What is the price per nail?
- 8) A round trip from Katie's house to the grocery store is 2.10 miles. Katie estimates since she moved into her house she has gone 100 times. How many miles would that mean Katie has travelled?
- 9) An orchard owner is buying 5.34 acres of land to plant more trees. He figures he will plant 100 trees per acre. How many trees will he plant on his new land?
- **10**) Sam has put 1,000 hours into playing an online video game. He has paid \$524.16 over the course of the entire game. How much did he pay per hour played?
- 11) Debby's mom decided to wallpaper the living room. At the store, the wallpaper was selling for \$12.19 for a roll with 100 linear feet. What is the price per linear foot of the wallpaper?
- **12**) A spoonful of ice cream contains 0 mg of iron. How much iron would you consume if you ate 100 spoonfuls?

Answers

- 2.
- 3. _____
- 4. _____
- 7.
- s. _____
- 9. _____
- 10. _____
- 11. _____
- 12. _____