

Name: Class:

Add, subtract, multiply, and divide decimals: word problems

- a. Larry is a waiter in a restaurant. He earns \$256.25 from his job. If he worked 22.5 hours this month, then how much did he earn per hour? Round your answer to the nearest cent.
- b. Rita ordered 9 pizzas for her and her friends. Each pizza costs \$17.55. How much does she need to pay?
- c. The tallest tree in a national park is 456.4 meters. The second tallest tree in the same national park is 425.75 meters. How much taller is the tallest tree?
- d. I have a very long rope measuring 752.50m. If I cut the rope into a piece measuring 50.75m, what is the length of the original rope now?
- e. A laptop costs \$578.25 in a store and the same laptop costs \$578.99 online. How much more does the laptop cost online than in a store?
- f. Today, my four friends and I ordered some pizza. The total bill was \$50.26. To the nearest cent, how much money did each of us pay if we divided the bill equally?
- g. A lollipop company makes 452,250.25 kilograms of candy in 1.30 hours. How much kilograms of lollipop to the nearest hundredth does the company make per minute?
- h. One Halloween morning, my mother baked a pumpkin pie that weighs 3.8 pounds. If she baked 78 and a half of such pumpkins for the Halloween Party that she is hosting in our house, what was the total weight of all the pumpkins?
- i. Mr. Smith bought 78,000.5 shares of stock in an oil company for \$15.95 each. To the nearest cent, what was the cost of all the shares?
- j. Anthony Scores 456.75 points on an online game he and his friend were playing. If his friend's score was 2.25 times higher than Anthony's score, to the nearest whole number, what was his friend's score in the game?

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- a. Larry is a waiter in a restaurant. He earns \$256.25 from his job. If he worked 22.5 hours this month, then how much did he earn per hour? Round your answer to the nearest cent.

To solve this problem, let's divide \$256.25 by 22.5.

$$\begin{array}{r}
 22.5 \overline{) 256.25} \\
 \underline{225} \\
 312 \\
 \underline{225} \\
 875 \\
 \underline{675} \\
 2000 \\
 \underline{1800} \\
 2000 \\
 \underline{1800} \\
 200
 \end{array}$$

11.388

225 $\overline{) 2562.500}$ ← To round to the nearest cent, divide to thousandths.

← Stop 11.388 = 11.39 to the nearest cents.

So, Larry earned \$11.39 per hour.

- b. So, Rita need to pay \$157.95
- c. So, the tallest tree is 30.65 taller than the second tallest tree
- d. So, the length of the original rope now is 701.75m.
- e. So, the laptop cost \$0.74 more online than in the store.
- f. So, each person paid \$10.05.
- g. So, the company makes 5,798.08kg of lollipops per minute
- h. So, the total weight of all the pumpkins is 298.3 pounds.
- i. So, the cost of all the shares was \$1,244,107.98
- j. So, his friend scored 1,028 points in the game.