Using Rate Language

Name: _____

Solve each problem.

1) We paid $40 for 8 hamburgers, which is a rate of $___ per hamburger.

2) A pencil company used 60 grams of rubber to make 10 pencils, which is a rate of ___ grams per pencil.

3) An industrial machine is able to make 9 pens in 3 seconds. What is the rate made per second?

4) It took a pet store 10 weeks to sell 80 cats. What is the rate sold per week?

5) For every 4 miles Vanessa jogged, Cody jogged 3 miles. If Vanessa jogged 1 miles, how far would Cody have jogged?

6) A tailor used 2 meters of string to make 10 Halloween masks. He used _____ of a meter for each mask.

7) A machine worked for 5 hours and used 4 kilowatts of electricity. The machine used _____ of a kilowatt each hour it worked.

8) A candy company used 8 gallons of syrup to make 4 batches of candy. What is the rate of syrup per batch?

9) Oliver earned $12 for mowing 3 lawns. What is the rate earned per lawn mowed?

10) A baker used 4 cups of flour to make 5 batches of brownies. He used _____ of a cup of flour to make 1 batch of brownies.

11) A computer programmer worked for 10 hours and earned $70, which is a rate of $___ per hour.

12) A scientist used 2 gallons of liquid for every 3 hours he works. He uses _____ of a gallon each hour he works.

13) A fair owner made 18 dollars when a group of 3 people entered, which is a rate of ___ dollar per person.

14) Luke spent 8 days collecting cans and he managed to collect 6 pounds. He collected _____ of a pound each day.

15) A jogger travelled 50 kilometers in 5 days. What is the rate he travelled per day?

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16.   A 6-ounce bag of raisins costs $2.46. An 8-ounce bag of raisins costs $3.20. Which is the better deal?

6-oz unit rate: _____   8-oz unit rate: _____

Better buy: _____

17.   A 12-ounce bag of birdseed costs $3.12. A 16-ounce bag of birdseed costs $3.84. Which is the better deal?

12-oz unit rate: _____   16-oz unit rate: _____

Better buy: _____

18.   As 8-ounce bag of sunflower seeds costs $1.68. A 4-ounce bag of sunflower seeds costs $0.88. Which is the better deal?

8-oz unit rate: _____   4-oz unit rate: _____

Better buy: _____

19.   A 12-pound bag of dog food costs $12.36. A 15-pound bag of dog food costs $15.30. Which is the better deal?

12-lb unit rate: _____   15-lb unit rate: _____

Better buy: _____

20.   Gina charges $28 for 3 hours of swimming lessons. Hector charges $18 for 2 hours of swimming lessons. Which

instructor offers a better deal?

Gina unit rate: _____   Hector unit rate: _____

Better buy: _____

21.   A florist can create 16 bouquets during an 8-hour workday. How many bouquets can the florist create per hour?

_____

The BEST Buy

Instructions: For each question, calculate the unit rate for each option and determine which one is the BEST buy. **Write your final choice in the last column.**

→ The first one is done as an example for you to follow
→ Round all answers to TWO decimal places if necessary

	Option 1	Option 2	Unit Rate 1	Unit Rate 2	BEST BUY
Question #1	3 batteries for $4.80	12 batteries for $14.76	$4.80 / 3 = $1.60	$14.76 / 12 = $1.23	OPTION # 2 (cheaper)
Question #2	22 staplers for $330	4 staplers for $80			
Question # 3	5 calculators for $105	24 calculators for $552			
Question # 4	18 pens for $6.84	30 pens for $8.40			
Question # 5	18 ounces for $7.38	27 ounces for $15.39			
Question # 6	11 books for $99	29 books for $203			
Question # 7	$15.98 for 34 litres of gas	$4.68 for 12 litres of gas			
Question # 8	$160 for 10 calendars	$114 for 6 calendars			

Question # 9	16 pounds for $31.68	28 pounds for $49.56			
Question # 10	$625 for 25 pairs of shoes	$800 for 33 pairs of shoes			
Question # 11	3 litres of pop for $1.89	10 litres of pop for $6.90			
Question # 12	$407 for 37 pairs of jeans	$570 for 48 pairs of jeans			
Question # 13	12 chocolate bars for $22	20 chocolate bars for $33			
Question # 14	24 grams of turkey for $10.08	9 grams of turkey for $4.77			