Name:	Period:	SCORE:
Intermediate 1	Chapter 7 Review	Unit 7
Find the unit rate. Round	to the nearest hundredths place if nece	essary and label.
1. If it costs \$50 to fill a	20 gallon tank, what is the price per gallon?	

- 2. If a car goes 400 miles in 5 hours, find the average speed (miles per hour).
- 3. If my car can go 200 miles on 20 gallons of gas, find the number of miles per gallon?
- 4. 477 students for 9 classrooms
- 6. \$425 for 17 tickets
- 8. Which size of yogurt shown in the table has the lowest unit price?

Size (oz)	Cost (\$)
6	0.89
8	1.04
10	1.69
32	4.79

- 7. Kevin traveled 6200 yards in 3 hours. What is the average speed in miles per hour?
- 9. Which size of hand sanitizer shown in the table has the lowest unit price?

Size	Volume (fl oz)	Price
Trial	6	\$.78
Regular	12	\$1.20
Family	28	\$2.24
Economy	40	\$3.60

5. \$1.68 for 3 pounds

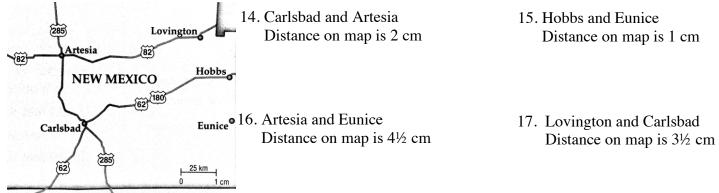
For problems 10 and 11 state whether or not each set of ratios is a proportion.

10.	4 3	11	12	8
10.	$\frac{1}{9}, \frac{1}{8}$	11.	$\frac{12}{48},$	32

For problems 12 and 13 solve for the variable to make the statement true.

12.
$$\frac{13}{28} = \frac{25}{n}$$
 13. $\frac{h}{18} = \frac{7}{50}$

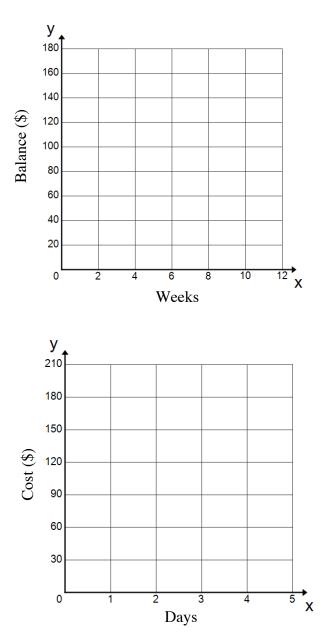
For problems 14 - 17, write and solve proportions using the scale provided on the map to find the actual distance between each set of cities.



For problems 18 and 19, determine whether the relationship between the two quantities shown in each table are proportional by graphing on the coordinate plane. Explain your reasoning.

1	8	

Savings Account		
Week	Account Balance (\$)	
2	40	
4	80	
6	120	



19.

Car Rental Rates		
# of Days	Cost (\$)	
1	30	
2	60	
3	90	
4	120	

Determine if the situation represents a proportional relationship. Then, explain your reasoning.

20. The table shows the amount Maggie earns each hour she babysits.

Time (h)	2	3	4
Earnings (\$)	12	18	24

21. The table shows the cost of shampoo at Walmart.

# of Bottles	7	8	9
Cost (\$)	2.95	4.50	6.05

22. Myra can fill 28 glasses of water with 4 pitchers. How many glasses can she fill with 14 pitchers?



For problems 23 and 24, check each table to see if it has a constant rate of change. If so, please state the constant rate of change.

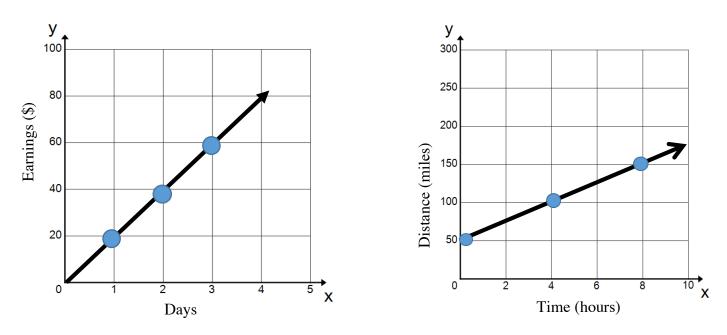
23.

Time (hr)	Distance (mi)
4	28
5	35
6	42
7	49

24.

Pounds (lbs)	1	2	4	8
Cost (\$)	0.50	1.00	2.00	4.00

For problems 25 and 26 do the following graphs show a constant rate of change? If so, please state the constant rate of change. If not, explain how you know it doesn't have a constant rate of change.

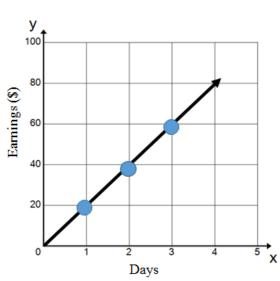


For problems 27 – 30, do the following tables and graphs represent proportional relationships? How do you know?

27		
27.	# of	Cost
	pizzas	(\$)
	3	18.75
	5	31.25
	7	43.75
	9	56.25

29.

Hours Days Worked (y) (x) 30 2 4 50 70 6 8 90





28.

