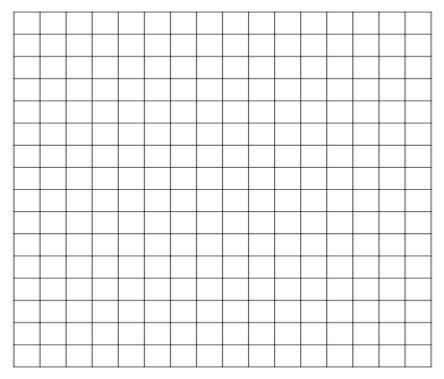
1. To raise money, students plan to hold a car wash. They ask some adults how much they would be willing to pay for a car wash. The table below shows the results of their research.

Price Customers \	Noul	d Pay	for	a Ca	r Was	sh
Car Wash Price	\$4	\$6	\$8	\$10	\$12	\$14
Number of Customers	120	105	90	75	60	45

a. Make a coordinate graph of the (price, customers) data.



**b.** Describe the pattern relating the price to the number of customers:

"As the price of the car wash increases, the number of customers \_\_\_\_\_\_"

c. Based on the pattern, what number of customers would you predict if the price were \$16, \$20, or \$2?

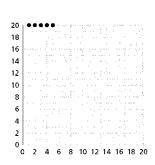
\$16: \_\_\_\_\_ \$20: \_\_\_\_

\$2:\_\_\_\_\_

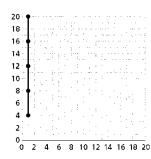
2. <u>MULTIPLE CHOICE:</u> Which graph best represents the table below? **Circle** the correct answer below.

Perimeter	4	8	12	16	20
Length of Side of a Square	1	2	3	4	5

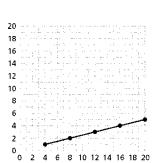
a.



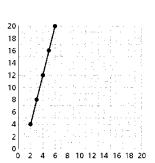
b.



c.



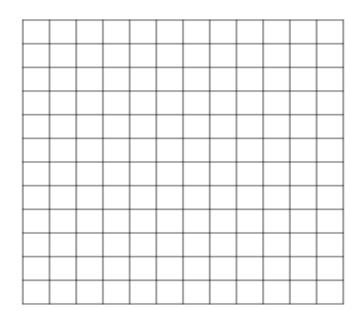
d.



**3.** Edru Roller Rink rents roller blades for **\$3 per skater**. Counting up by 5 skaters, make a table showing the total rental charge for 0 to 40 skaters. Make a coordinate graph of your data.

# of Skaters	Total Rental Charge
0	\$0
5	\$15
	\$30
20	
	\$75
40	

**Total Rental Charge** 



**Number of Skaters** 

- 4. Jessi is trying to complete the bike tour at a steady (constant) rate. Her speed is 8 miles per hour.
  - **a.** Fill in the rest of this <u>table</u> that shows the *distance* traveled every *hour*, up to 8 hours, if she is able to ride at this constant speed.

Hour	1	2	3			8
Miles		16		40	56	

h	How f	far wo	uld she	e travel	in
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0.5 hour: \_\_\_\_\_ 9 hours: \_\_\_\_\_

3.5 hours: \_\_\_\_\_ 15 hours: \_\_\_\_

- **5.** A camping-supply store rents camping gear for \$25 per person.
  - **a.** Make a table of the total rental fee for 0, 2, 4, 7, 12, 15, and 20 campers.

Numbers of Campers	0	2	4	7	12	15	20
Rental fee	\$0		\$100				

<b>b.</b> Describe the pattern of change in	).	Describe th	: pattern (	of chang	e in '	vour	table	е:
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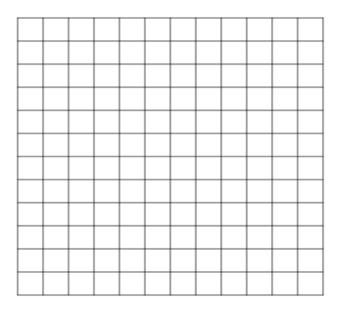
"As the number of campers \_\_\_\_\_\_ by 2, the rental fee increases by \_\_\_\_\_."

- c. If I had 9 campers in my group, what would be my total cost? \_\_\_\_\_
- **d.** If I spent \$400, how many campers did I bring?

**6.** The following table shows typical weights for young tiger cubs from birth to 11 weeks. Use the data to answer parts (a)–(f).

**Typical Weights for Tiger Cubs** 

Typical weights for Tiger Cu					
Age (weeks)	Expected Body Weight (kg)				
birth	1.3				
1	2.3				
2	3.0				
3	3.8				
4	4.5				
5	5.2				
6	6.0				
7	6.7				
8	7.5				
9	7.6				
10	8.9				
11	9.7				



- a. What weight is *predicted* for a 1-week-old tiger cub? \_\_\_\_\_
- **b.** What weight is *predicted* for a 10-week-old tiger cub? \_\_\_\_\_
- **c.** At what age do tiger cubs typically weigh *about* 7 kilograms? \_\_\_\_\_\_
- **d.** Label the **variables** (age, weight) on the coordinate graph above. 1
- e. Plot the data points (from the table) on the graph above. 1
- f. How would you describe the pattern relating tiger cub age and weight?

