Name	
Date	Pd

## REPRESENTING PROPORTIONAL RELATIONSHIPS

Practice representing proportional relationships in multiple ways with the following examples. Use the representation given to help you fill in the others.

## [EQUATION] [VERBAL DESCRIPTION] The student council is selling t-shirts to raise awareness for the local animal shelter. For each t-shirt they sell, they will donate \$5.00. [TABLE] [GRAPH] 250 # OF SHIRTS **DOLLARS** 225 **DONATED** SOLD 200 0 175 10 150 125 20 100 30 75

50 25

10

30

50

70

90

Use the representations in the example above to answer 1-5.

	1. Describe how you know that the above situation is proportional.	2. Find the cons proportionality.		3. What does the rate of change represent in this situation?
4. What does the ordered pair (10, 50)		5. If the student council sells 80 t-shirts, how		

4. What does the ordered pair (10, 50) represent in the context of the situation?

40

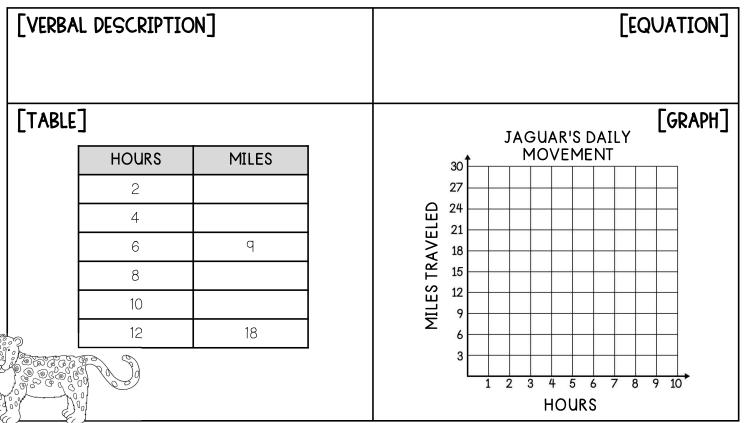
50

60

5. If the student council sells 80 t-shirts, how much will they donate to the animal shelter?

Use the given information for each situation below to fill in the missing representations.

## [VERBAL DESCRIPTION] [EQUATION] y = 3x[TABLE] [GRAPH] JACK'S HALLOWEEN DECORATING # OF 30 **HOURS PUMPKINS** 27 # OF PUMPKINS PAINTED 24 21 2 18 3 15 12 4 5 6 7 **HOURS**



Summarize today's lesson:

Unit: Proportional Relationships Homework 4

## REPRESENTING PROPORTIONAL RELATIONSHIPS

Shoreside Bikes is a bike rental company that charges tourists by the hour as shown in the table. Use the table to fill in the missing representations.



[EQUATION]

[TABLE]

	\ \	<u> </u>
HOURS	COST (\$)	
1		
2	\$24	
3		
4		
5		
6		
7	\$84	

SHORESIDE BIKES

60
54
48
42
36
30
30
24
18
12
6
HOURS

1. What is the rate of change and what does it represent in this situation?

2. What does the point (7, 84) represent in this situation?

3. The bike rental company has determined that they will charge based on the nearest half hour. If Mikala rented a bike for 5.5 hours, how much would she be charged?

4. If a customer has \$50.00 to spend, how many hours can they rent a bicycle?