

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.



[VERBAL DESCRIPTION]

It cost \$12 per hour to rent a bike.

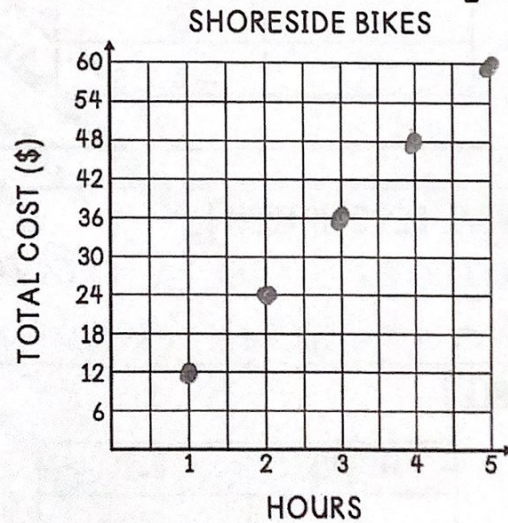
[EQUATION]

$$y = 12x$$

[TABLE]

| HOURS | COST (\$) |
|-------|-----------|
| 1 | \$12 |
| 2 | \$24 |
| 3 | 36 |
| 4 | 48 |
| 5 | 60 |
| 6 | 72 |
| 7 | \$84 |

[GRAPH]



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

12 dollars per hour

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

It cost \$84 to rent a bike for 7 hours

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?

\$66

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

4 hours

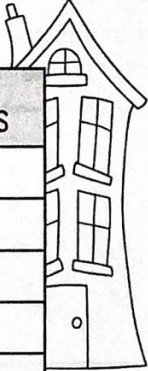
Use the given information for each situation below to fill in the missing representations.

[VERBAL DESCRIPTION]
Jack decorates 3 pumpkins per hour

[EQUATION]
 $y = 3x$


[TABLE]

| HOURS | # OF PUMPKINS |
|-------|---------------|
| 1 | 3 |
| 2 | 6 |
| 3 | 9 |
| 4 | 12 |
| 5 | 15 |
| 6 | 18 |
| 7 | 21 |



[GRAPH]

JACK'S HALLOWEEN DECORATING

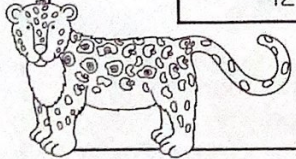


[VERBAL DESCRIPTION]
Jaguars can travel 1.5 miles per hour

[EQUATION]
 $y = 1.5x$

[TABLE]

| HOURS | MILES |
|-------|-------|
| 2 | 3 |
| 4 | 6 |
| 6 | 9 |
| 8 | 12 |
| 10 | 15 |
| 12 | 18 |



[GRAPH]

JAGUAR'S DAILY MOVEMENT

Summarize today's lesson: