

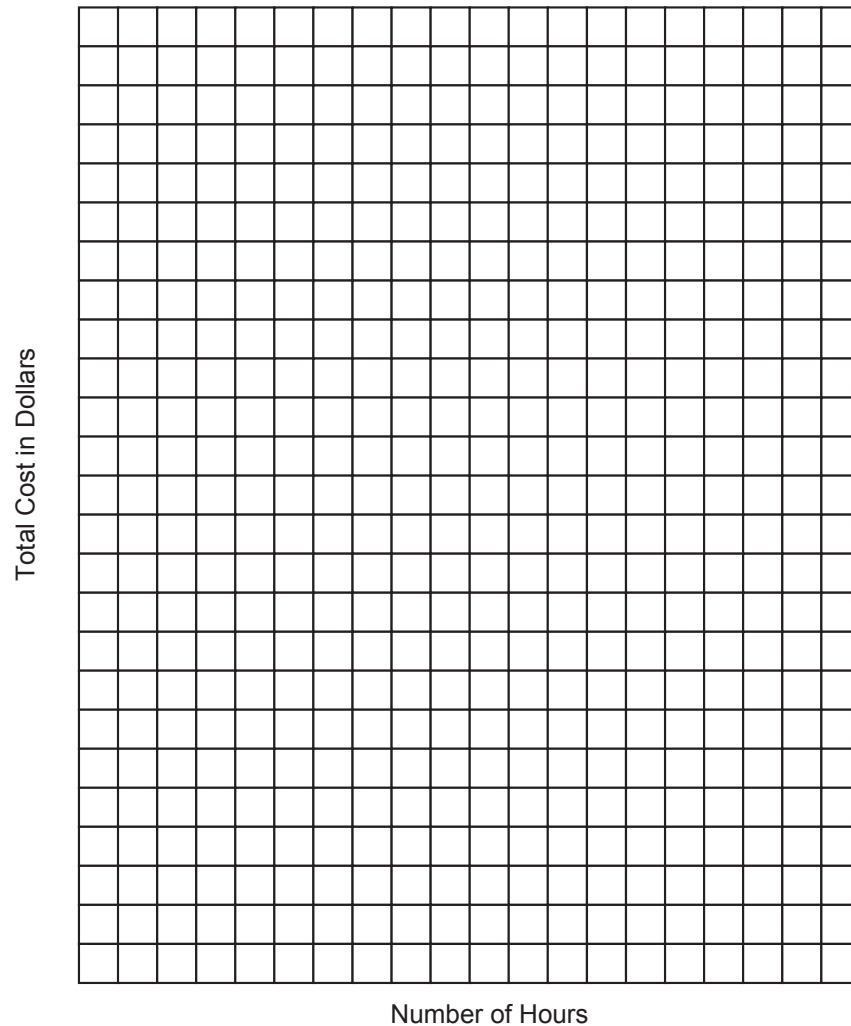
B32a Jet Ski Rental—Activity 1

You are at Galveston for a week-long gathering. Members of your family want to rent a jet ski. It will cost \$30.00 for a deposit plus \$45.00 per hour. How long can you rent the jet ski if your family has budgeted \$350 for the rental fee?

Number of Hours	Process (Total Cost in Dollars)	Total Cost in Dollars
1	$45(1) + 30$	75
2		
3		
4		
5		
x		

- Study the table for patterns and state any observations.
- Compare the total cost to the number of hours for each row of the table. Is there a set of equivalent ratios?
- How can you use this information to help you determine if the jet ski rental situation is a proportional relationship?
- Write an equation that relates the total cost, y , and the number of hours, x .
- How can you determine if this jet ski rental situation is a proportional relationship by looking at the equation?

B32b **Jet Ski Rental—Transparency 1**



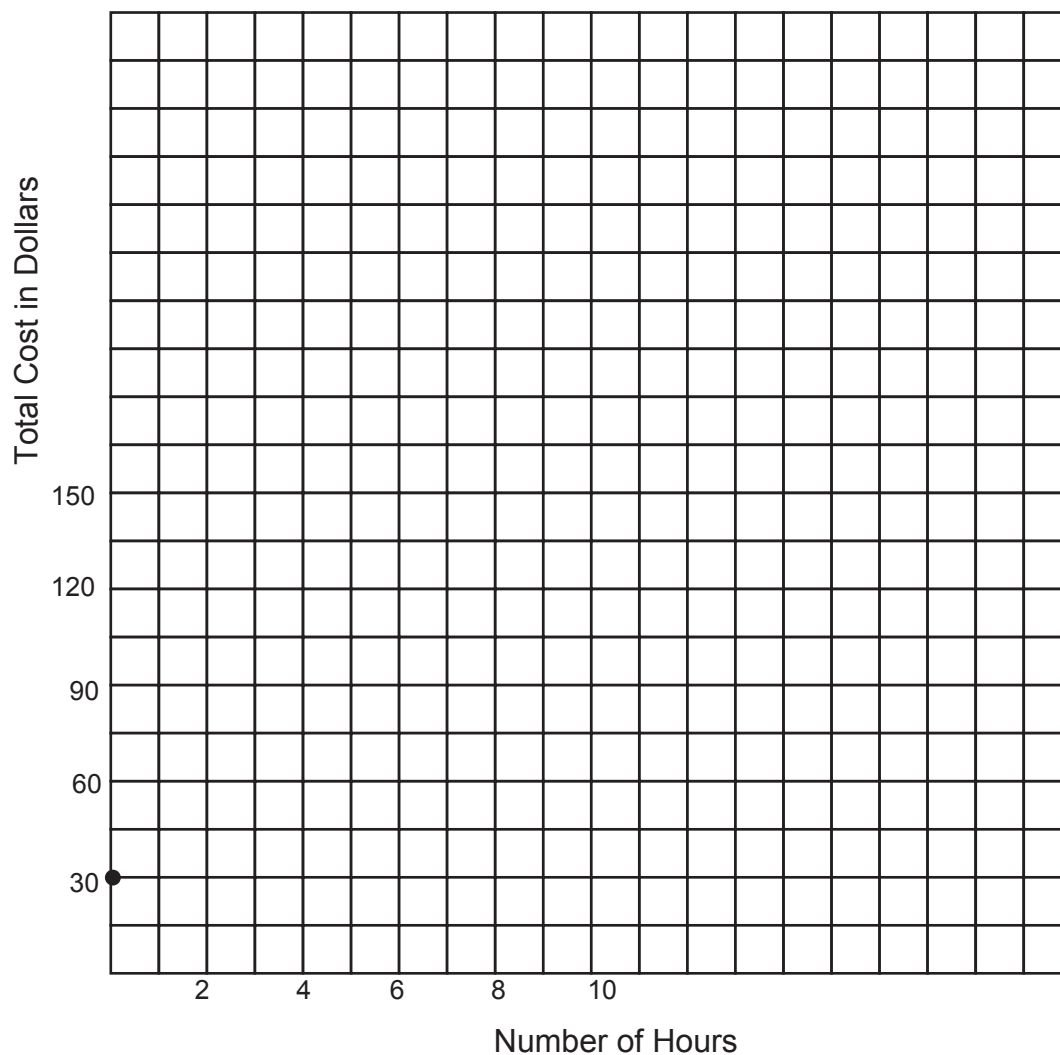
- What is the cost of rental at 0 hours? What does this mean?
- What does the ordered pair (6, 300) on the graph mean in words?
- How many hours can your family rent the jet ski if they have budgeted \$350? Explain.
- Use your graph to determine the cost to rent the ski for 13 hours over a 2-day period.
- Is it reasonable to pay \$400 for renting the jet ski for 8 hours on one day? Explain your reasoning.
- Does this graph represent a proportional relationship? Why or why not?

B33a Jet Ski Rental—Activity 2

You are at Galveston for a week-long vacation. Members of your family want to rent a jet ski. It will cost \$45.00 per hour. How long can you rent the jet ski if your family has budgeted \$350 for the rental fee?

Number of Hours	Process (Total Cost in Dollars)	Total Cost in Dollars
1	45(1)	45
2		
3		
4		
5		
x		

- Compare the ratio of Total Cost, y , to Number of Hours, x , for each row of this table and state your observations.
- How can you use this information to help you determine if this is a proportional relationship?
- Write an equation using the “process column” in your table.
- How can you recognize a proportional relationship from an equation?
- How many hours can you rent the jet ski on a budget of \$350? Explain.



Graph the ordered pairs from the table of values in Activity 2 on the grid below.

- What does the ordered pair (0, 0) mean in words in this problem?
- What is the cost to rent the jet ski for 7 hours?
- How many hours could your family rent the ski with no deposit on a budget of \$350?
- Did the deposit make any difference in the number of hours you could rent the jet ski on a budget of \$350? Explain.
- Does this graph represent a proportional relationship? Why or why not?