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Linear Relations Between Two Variables p. 88 to 103

Name:

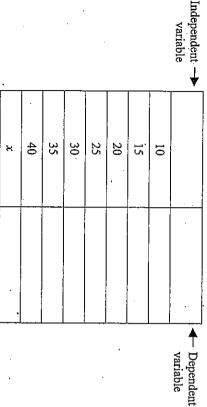
Linear Relations Between Two Variables p. 88 to 103

Date:

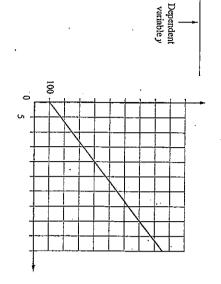
Support Sneet

want to determine how much the ski season will cost based on the number of days you plan to ski. A ski hill offers the following package: \$100 season registration fee and \$15 for a day pass. You

- The dependent variable is the one that varies according to the values attributed to the independent variable. Identify the dependent variable in this situation
- b) Complete the table of values



೦ Use a graph to represent the relation. Identify the axes



The intervals on an axis must be constant.

on the two axes. The scales can be different

5 while, for the y-axis, each box corresponds to an interval of 100. graph on the left, each box corresponds to an interval of Example: For the x-axis in the

Support Sheet (continued)

d) We reproduced a portion of the table of values to help you calculate the rate of change the rate of change. Complete the table and calculate the variations for the variables x and y, then calculate



Rate of change = $\frac{\text{change in } y}{\text{change in } x}$, that is, a =

- ဨ What is the initial value that corresponds to the cost if you do not ski a single day during the season?
- ij Write the rule in the form of y = ax + b representing the relation between the cost (y) and the number of ski days (x).
- Using the relation found in f), calculate:

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- 1) how much you would pay for 17 ski days?
- 2) how many days you would have spent on the slopes if you paid \$520?

See What I Know

a) Plot the graph of the relation corresponding to the table of values.

ų	×
?	0
50	1
70	2
110	4
130	5
150	6

- <u>ь</u>) 1) Calculate the rate of change
- છ Calculate the initial value by finding the value of y when x = 0
- ω between x and y Write the rule representing the relation

Independent variable x

