

Name: _____

Independent and Dependent Variables

Writing Equations, Creating Tables & Graphs

Directions: Identify the dependent and independent variables for each scenario. Write an equation to represent the relationship between variables. Finally, create a table and a graph to show the constant relationships.

1. Gabrielle is saving money for a vacation. Each week she saves \$40. Let s represent the total amount of money Gabrielle saves, and let w represent the number of weeks. Create a table and a graph to show how much money she would save from 1 to 7 weeks.



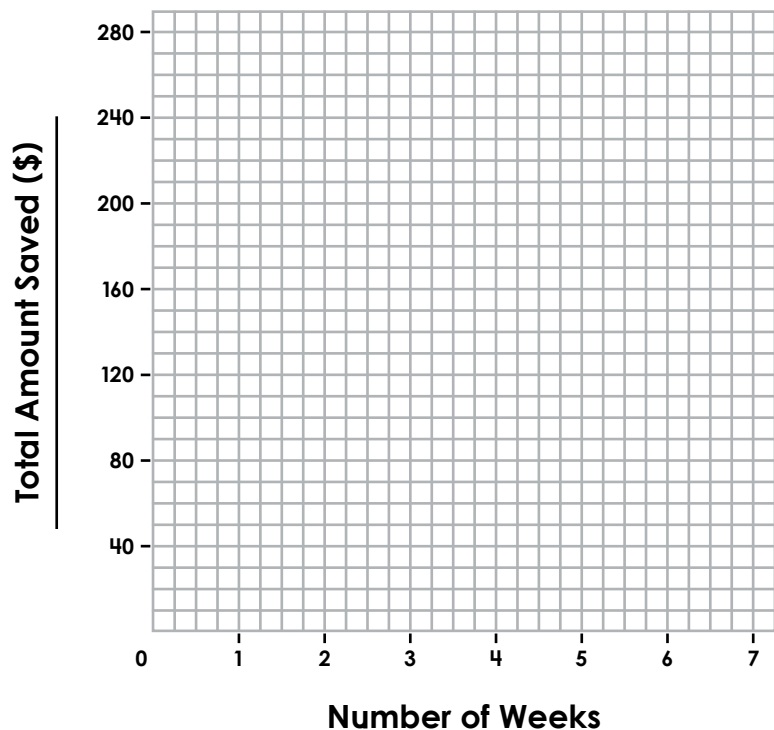
Preview

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Number of Weeks	Total Amount Saved
w	$40w$ or s

x-axis

y-axis



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2. Nataliah can read 160 words per minute. Let w represent the total number of words Nataliah reads, and let m represent the number of minutes she spends reading. Create a table and a graph to show how many words Nataliah will read from 1 to 5 minutes. *Don't forget to label your axes.*

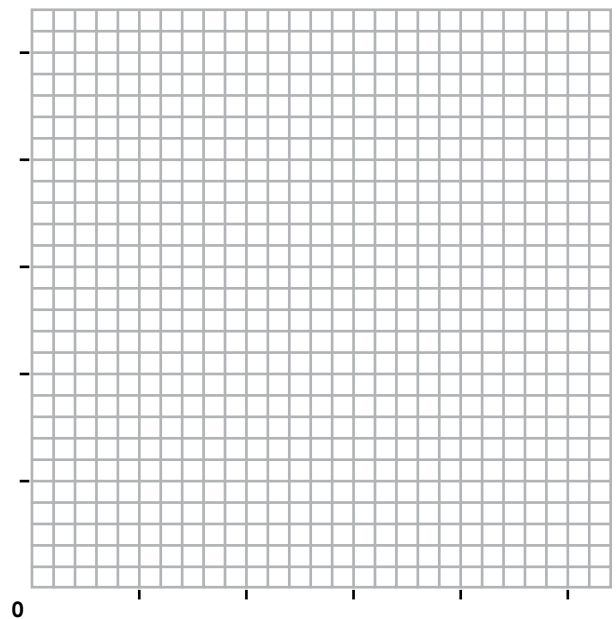
Dependent variable: _____

Independent variable: _____



Preview

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3. Zoe is shopping for fruit at the local farmer's market. She knows she wants to buy a bushel of peaches for \$12.00, plus some plums. Plums cost \$2.00 each. Create a table and a graph to show Zoe's total cost, t , when she buys 1 to 6 plums, p . Don't forget to label your axes.

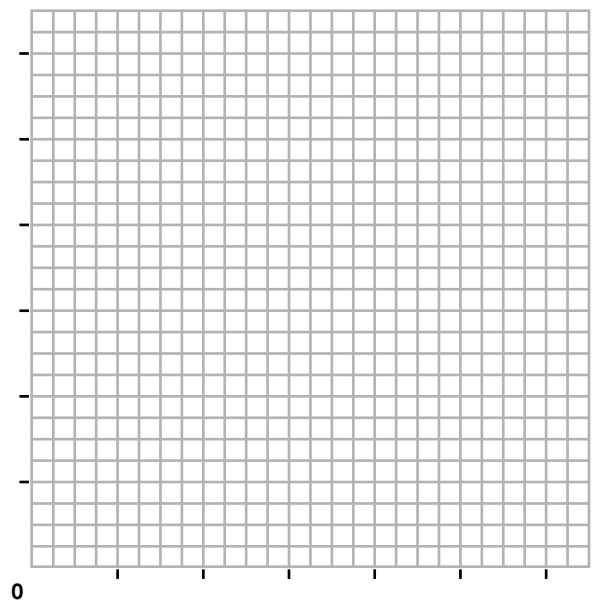
Dependent variable: _____

Independent variable: _____



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ANSWER KEY

Independent and Dependent Variables

Writing Equations, Creating Tables & Graphs

1. Dependent variable: total amount saved (s)

Independent variable: number of weeks (w)

2. Dependent variable: total words read (w)

Independent variable: number of minutes (m)

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Number of Plums

7	315
8	360
9	405
10	450
11	495
12	540

Number of Months