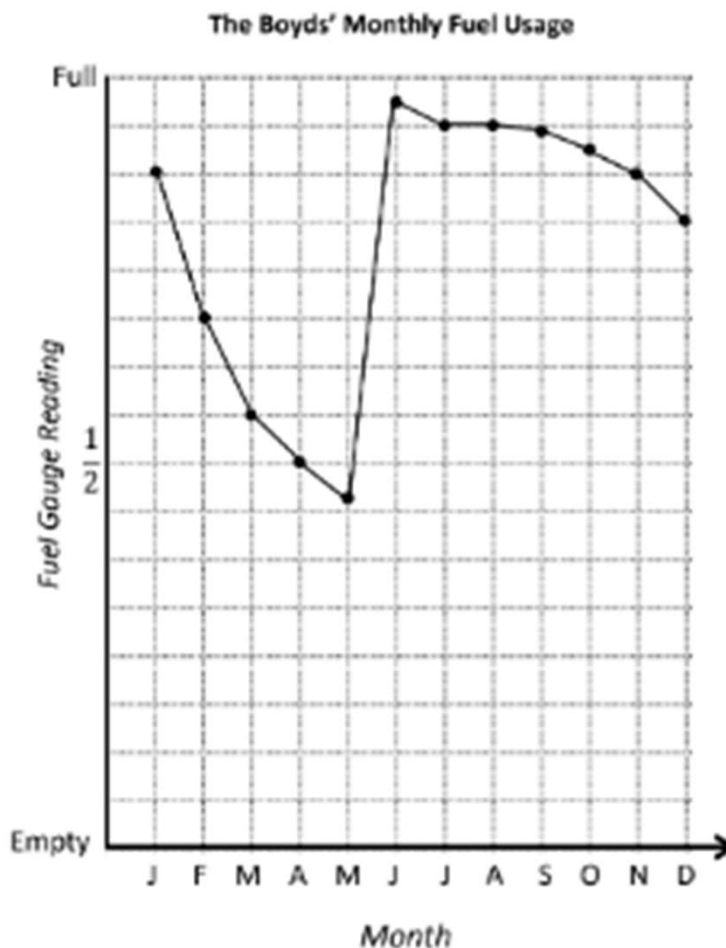


Line Graph Worksheets

Mr. Boyd checks the gauge on his home's fuel tank on the first day of every month. The line graph to the right was created using the data he collected.

- According to the graph, during which month(s) does the amount of fuel decrease most rapidly?
- The Boyds took a month-long vacation. During which month did this most likely occur? Explain how you know using the data in the graph.
- Mr. Boyd's fuel company filled his tank once this year. During which month did this most likely occur? Explain how you know.



- The Boyd family's fuel tank holds 284 gallons of fuel when full. How many gallons of fuel did the Boyds use in February?
- Mr. Boyd pays \$3.54 per gallon of fuel. What is the cost of the fuel used in February and March?

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Line Graph Worksheets

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- a. According to the graph, during which month(s) does the amount of fuel decrease most rapidly?

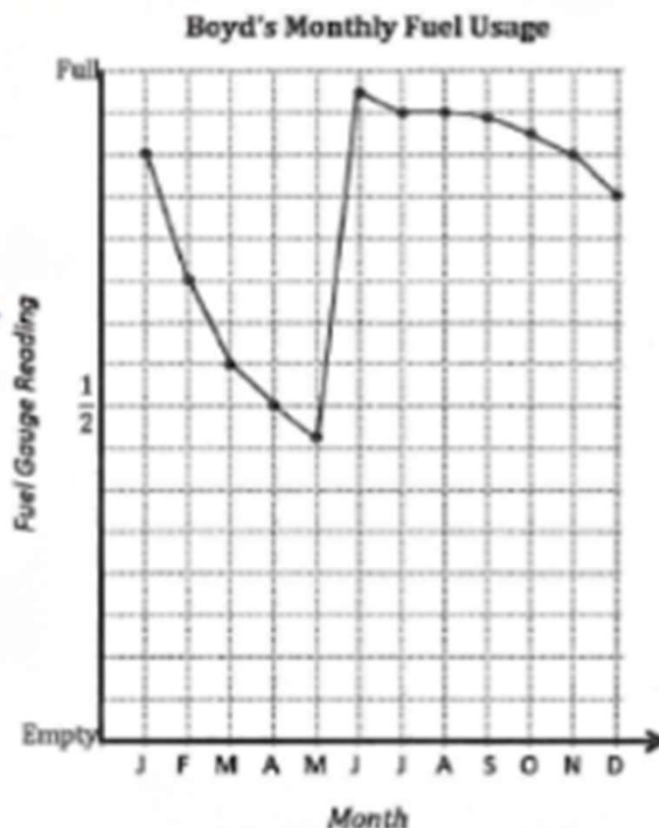
January is the month in which fuel decreases most rapidly.

- b. The Boyds took a month-long vacation. During which month did this most likely occur? Explain how you know using the data in the graph.

In July no fuel was used because the line is flat. That is when they went on vacation.

- c. Mr. Boyd's fuel company filled his tank once this year. During which month did this most likely occur? Explain how you know.

The tank was filled in May because the line went up meaning fuel was added.



- d. The Boyd family's fuel tank holds 284 gallons of fuel when full. How many gallons of fuel did the Boyds use in February?

$$\frac{284}{16} = 17.75$$

If full means the tank contains 284 gallons, each interval on the Fuel Gauge Reading represents 17.75 gallons. In February the line went down 2 units or 35.5 gallons (2×17.75) meaning 35.5 gallons of fuel were used.

- e. Mr. Boyd pays \$3.54 per gallon of fuel. What is the cost of the fuel used in February and March?

In February the line went down 2 units and in March, 1 unit for a total of 3 units in those 2 months. That is a total of 53.25 gallons (3×17.75). Each gallon costs \$3.54 so the total fuel cost is \$188.51 (53.25×3.54).