

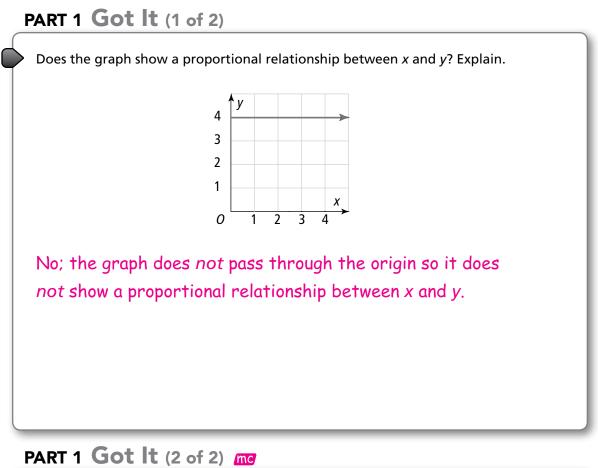
**Reflect** Do you think a graph or a table makes it easier for the company to find the correct mix of blue and yellow paint to make Granny Apple Green?

Sample: I think a table is better because you can see the exact

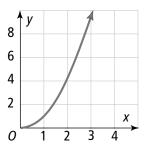
number of gallons for each paint color. On a graph, if an order

doesn't match to where grid lines cross, you have to estimate.

# Got It?



Does the graph show a proportional relationship between x and y? Explain.



The ratio of x to y is not the same at every point on the line. The graph is not a straight line that passes through the origin. No, the graph does not show a proportional relationship between x and y.

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## Got It?

### PART 2 Got It

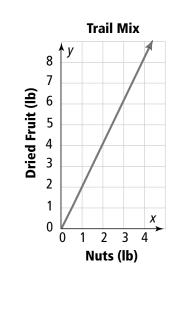
Does the equation y = 4x + 1 show a proportional relationship between x and y? Explain.

No, the equation y = 4x + 1 does not show a proportional relationship between x and y. The graph of y = 4x + 1 does not pass through the origin.

## PART 3 Got It me

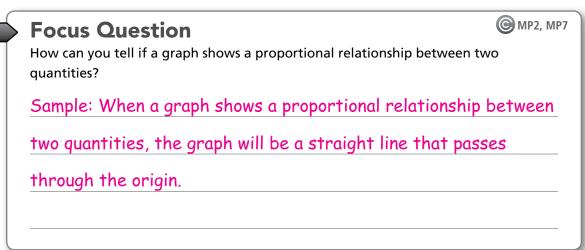
(1, 2)

The graph shows a proportional relationship between the amounts of nuts and dried fruit in a trail mix. You want to know how many pounds of dried fruit there are per pound of nuts. What point represents this unit rate?



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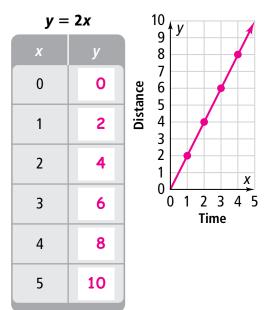
# **Close and Check**





### Do you know HOW?

**1.** The relationship between time x and distance y can be represented by the equation y = 2x. Complete the table and graph.



2. What is the distance when time is equal to 15?



**3.** What is the unit rate of the graph?

#### SAMPLE SOLUTIONS ARE SHOWN BELOW.

- Do you UNDERSTAND?
  - 4. Writing Does the graph in Exercise 1 represent a proportional relationship? Explain how you know.

Yes. Each y-value is 2 times

the x-value. Also, the graph

passes through (0, 0).

5. Reasoning Do all linear graphs represent proportional relationships? Explain.

No. A graph can be linear

but if it doesn't pass through

(0, 0), it isn't proportional.

6. Error Analysis A classmate says that not all proportional relationships are linear. Do you agree? Explain.

No. They must be linear

because each consecutive

point on the graph is increased

by the same multiple.

Topic 2