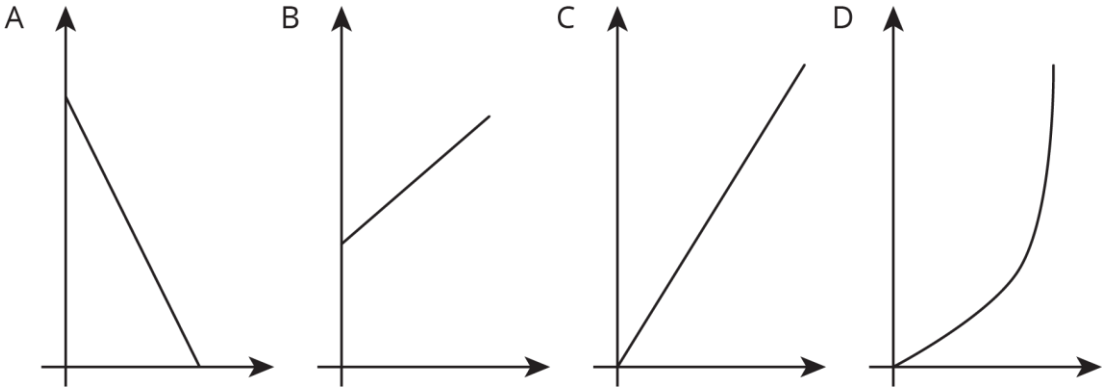
NAME DATE PERIOD

Assessment

Introducing Proportional Relationships: End-of-Unit Assessment

You will need a straightedge for this assessment.

1. Which graph represents a proportional relationship?



   a. A

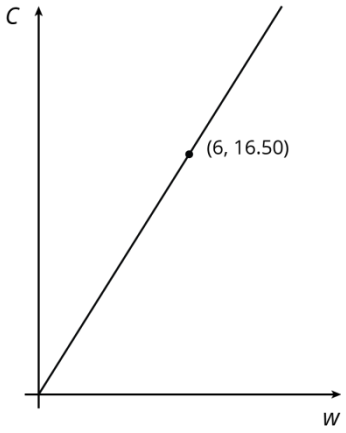
   b. B

   c. C

   d. D

2. The graph shows the cost C in dollars of w pounds of blueberries, a proportional relationship.

   Select **all** the true statements.



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a. 1 pound of blueberries costs \$2.75.

b. 2.75 pounds of blueberries cost \$1.

c. 5 pounds of blueberries cost \$15.50.

d. 12 pounds of blueberries cost \$33.

e. The point (3,9) is on the graph of the proportional relationship.

3. Andre rode his bike at a constant speed. He rode 1 mile in 5 minutes.

   Which of these equations represents the amount of time t (in minutes) that it takes him to ride a distance of d miles?

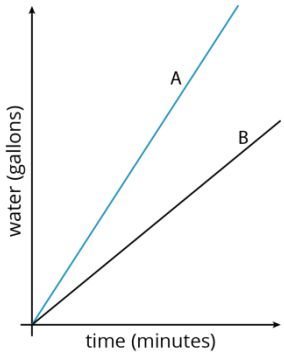
   a. $t = 5d$

   b. $t = \frac{1}{5}d$

   c. $t = d + 4$

   d. $t = d - 4$

4. The two lines represent the amount of water, over time, in two tanks that are the same size. Which container is filling more quickly? Explain how you know.



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5. The table shows the weights of apples at a grocery store.

number of apples	weight in kilograms
2	
5	0.60
12	

Complete the table so that there is a proportional relationship between the number of apples and their weight.

6. The equation $F = \frac{9}{5}C + 32$ relates temperature measured in degrees Celsius, C, to degrees Fahrenheit, F.

Determine whether there is a proportional relationship between C and F. Explain or show your reasoning.

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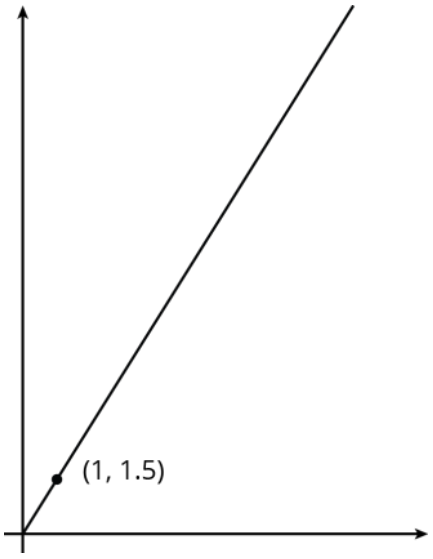
7. A recipe for salad dressing calls for 3 tablespoons of oil for every 2 tablespoons of vinegar. The line represents the relationship between the amount of oil and the amount of vinegar needed to make salad dressing according to this recipe. The point (1,1.5) is on the line.



a. Label the axes appropriately.
b. Write an equation that represents the proportional relationship between oil and vinegar. Indicate the meaning of each variable.

c. Explain the meaning of the point (1,1.5) in terms of the situation.