

NAME _____

DATE _____

PERIOD _____

Unit 2, Lesson 12: Using Graphs to Compare Relationships

1. Match each equation to its graph.

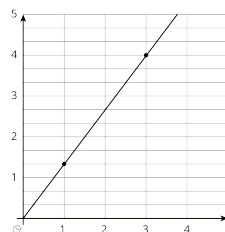
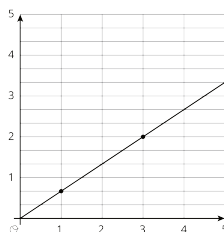
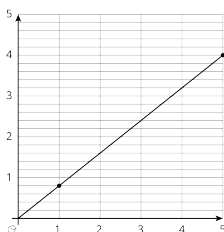
A. $y = 2x$

1

2

3

B. $y = \frac{4}{5}x$



C. $y = \frac{1}{4}x$

D. $y = \frac{2}{3}x$

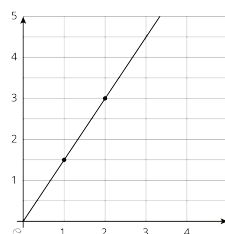
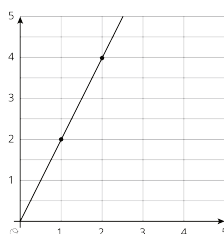
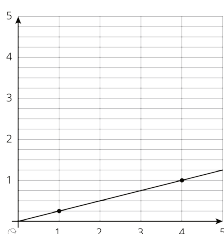
E. $y = \frac{4}{3}x$

F. $y = \frac{3}{2}x$

4

5

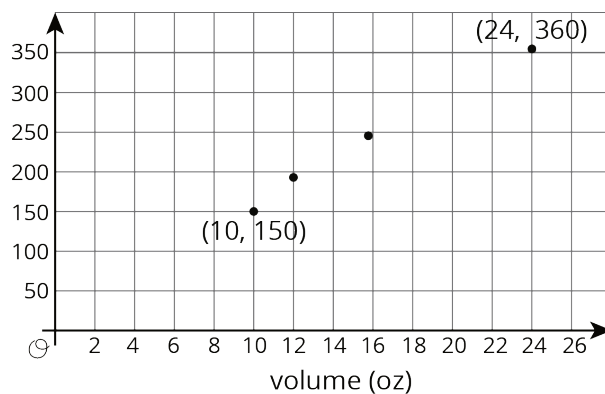
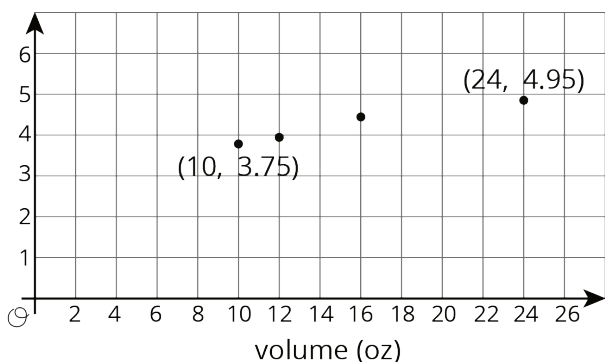
6



2. The graphs below show some data from a coffee shop menu. One of the graphs shows cost (in dollars) vs. drink volume (in ounces), and one of the graphs shows calories vs. drink volume (in ounces).

_____ vs volume

_____ vs volume



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- a. Which graph is which? Give them the correct titles.
 - b. Which quantities appear to be in a proportional relationship? Explain how you know.
 - c. For the proportional relationship, find the constant of proportionality. What does that number mean?
3. Lin and Andre biked home from school at a steady pace. Lin biked 1.5 km and it took her 5 minutes. Andre biked 2 km and it took him 8 minutes.
- a. Draw a graph with two lines that represent the bike rides of Lin and Andre.
 - b. For each line, highlight the point with coordinates $(1, k)$ and find k .
 - c. Who was biking faster?