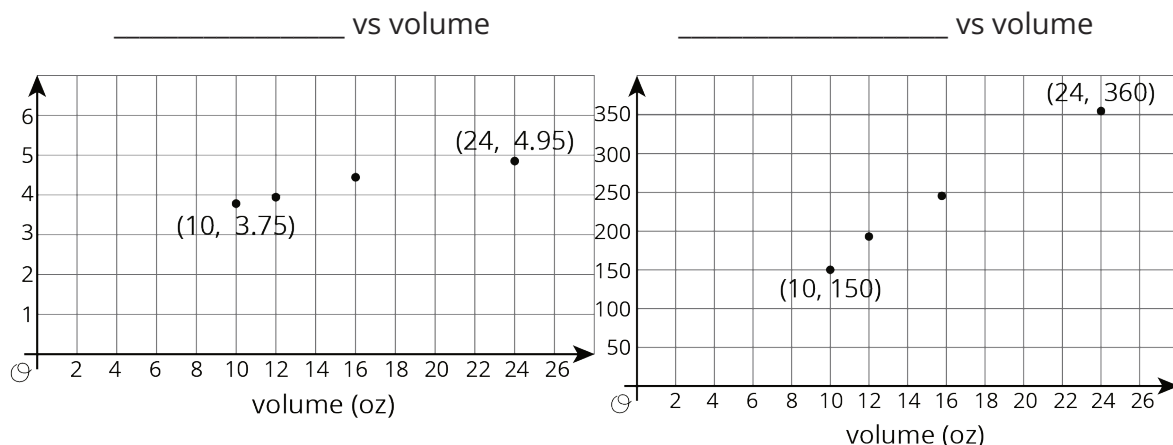


Lesson 12 Practice Problems

1. 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).



- Which graph is which? Give them the correct titles.
 - Which quantities appear to be in a proportional relationship? Explain how you know.
 - For the proportional relationship, find the constant of proportionality. What does that number mean?
2. 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.
- Draw a graph with two lines that represent the bike rides of Lin and Andre.
 - For each line, highlight the point with coordinates $(1, k)$ and find k .
 - Who was biking faster?

3. Match each equation to its graph.

a. $y = 2x$

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

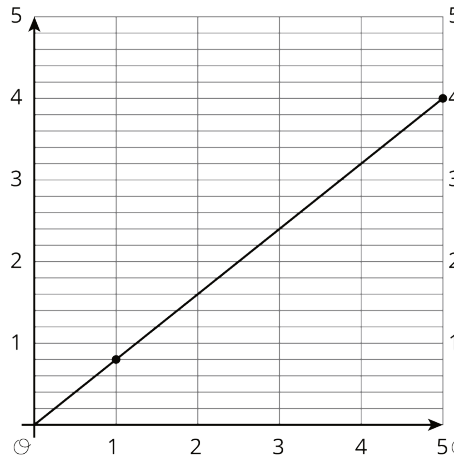
c. $y = \frac{1}{4}x$

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

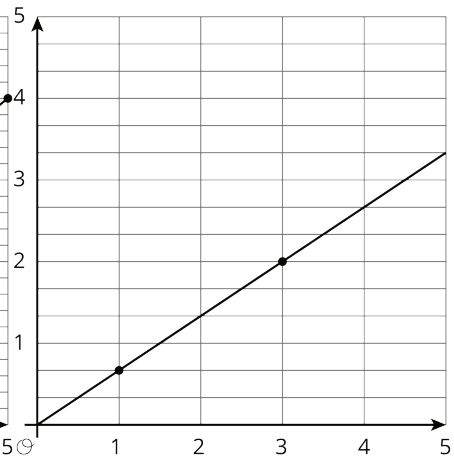
e. $y = \frac{4}{3}x$

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

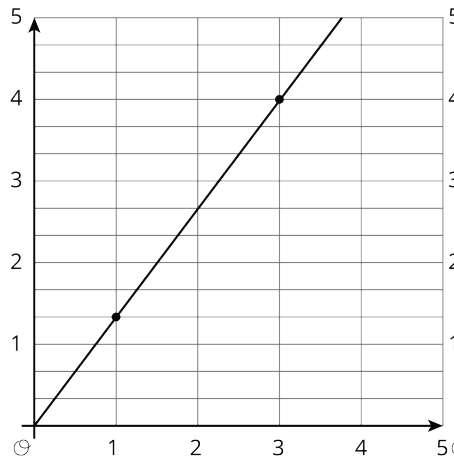
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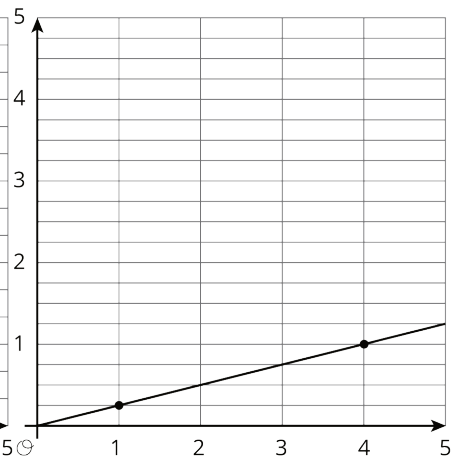
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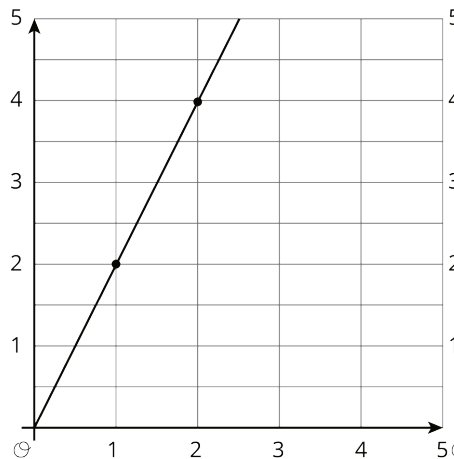
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4



5



6

