### 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).
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ vs volume
* 
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ vs volume
* 
	1. Which graph is which? Give them the correct titles.
	2. Which quantities appear to be in a proportional relationship? Explain how you know.
	3. For the proportional relationship, find the constant of proportionality. What does that number mean?
1. 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.
	1. Draw a graph with two lines that represent the bike rides of Lin and Andre.
	2. For each line, highlight the point with coordinates $\left(1,k\right)$ and find $k$.
	3. Who was biking faster?
2. Match each equation to its graph.
	1. $y=2x$
	2. $y=\frac{4}{5}x$
	3. $y=\frac{1}{4}x$
	4. $y=\frac{2}{3}x$
	5. $y=\frac{4}{3}x$
	6. $y=\frac{3}{2}x$
* 1
* 
* 2
* 
* 3
* 
* 4
* 
* 5
* 
* 6
* 



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