The following are proportional. Fill in the missing table, equation, and/or graph. Then answer the questions.

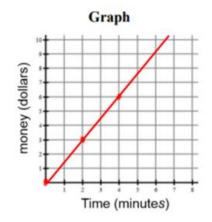
1. Verbal: Mr Kelly makes 3 dollars every 2 minutes tutoring math.

Table

Time (minutes)	Money (\$)
0	0
4	6
2	3
8	12

$$k = \frac{3}{\lambda} \text{ or } 1.5$$

Write the equation.



Use a sentence to explain what k means in this context.

Mr. Kelly gets 3 dollars every 2 minutes.

b. How much money will Mr. Kelly make in 60 minutes? Use your equation.

c. How long will it take for Mr. Kelly to earn 100 dollars? Use your equation.

$$100 = \frac{3}{2} \times \times = \frac{200}{3}$$
 or $66.\overline{6}$ minutes

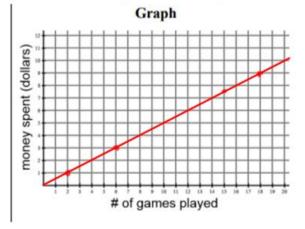
2. Verbal: Mr. Brust is trying to win a stuffed animal by playing the Claw game. He spends open game.

Table

Games Played (#)	Money Spent (\$)
2	1
15	7.5
18	9
6	3

Given the equation.

$$m=0.5g$$



Use a sentence to explain what k means in this context.

Mr. Brust pays 50 cents per game of the Claw.

b. How many games did Mr. Brust play if he spent \$10 on the Claw game? Use the equation.

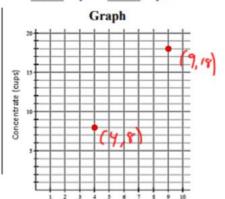
c. How much will 40 games of the Claw cost? Use the equation.

Verbal: The ratio of concentrate to water in "Ain't Ur Granny's Lemonade" is ____ cups to ____ cups.

X Table 4		
Water (cups)	Concentrate (cups)	
4	8	
1	2	
6	12	

$$k = \frac{8}{4} = 2$$

Write the equation.



a. Use a sentence to explain the meaning of the point (4,8).

The recipe uses 4 cups of water for 8 cups of concentrate.

b. How many cups of water do you need to make the lemonade if you have 6 cups of concentrate?

c. How many cups of concentrate do you need to make the lemonade if you have 40 cups of water?

Use the equation to fill in the table, answer the question, and graph.

4.

Table

x	у
0	0
2	6
6	18
2	15

Equation

$$y = 3x$$

Is the equation proportional?





5.

Table

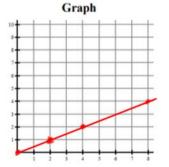
х	у	
0	0	
2	1	
4	2	
8	4	

Equation

$$y=\frac{1}{2}x$$

Is the equation proportional?





6.

Table

у	
8	
4	
6	
0	

Equation

$$y=-2x+8$$

Is the equation proportional?

YES or No

Graph

