

Taxi Ride #2

The 3 taxi companies have now changed their costs as follows.

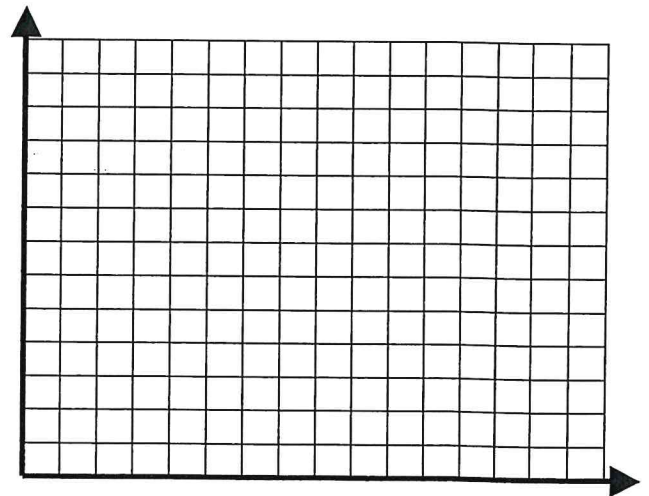
Kwik Kab	A-1 Taxi	Grabbacab
\$2 for every kilometre.	\$1 plus \$2 for every kilometre.	\$2 plus \$2 for every kilometre.

9. Complete the table below to determine the costs of the different taxi companies.

# of Kilometres	Kwik Kab	A-1 Taxi	Grabbacab
0			
1			
2			
3			
4			
5			

10. Is the relationship between the cost and the number of kilometres driven going to be linear or non-linear? Explain how you made your conclusion.

11. Draw a graph relating cost and number of kilometres driven. Use a different colour for each graph. Don't forget to label your axes and provide a title.



12. Determine an equation to represent the cost of a taxi ride. Use “C” to represent cost and “k” to represent the number of kilometres.

Kwik Kac	A-1 Taxi	Grabacab

13. What is the same about each equation?

14. How is the similarity from question #13 reflected in the graph?

15. What is different about each equation?

16. How is the difference from question #15 reflected in the graphs?

Summary:

Direct variation is a term used to describe equations and graphs with a...

The company that is an example of direct variation is:

Partial variation is a term used to describe equations and graphs that have a...

The companies that are examples of partial variation are:

Note: Equations of linear relationships are always in the form _____

Where “m” represents _____

and “b” represents _____