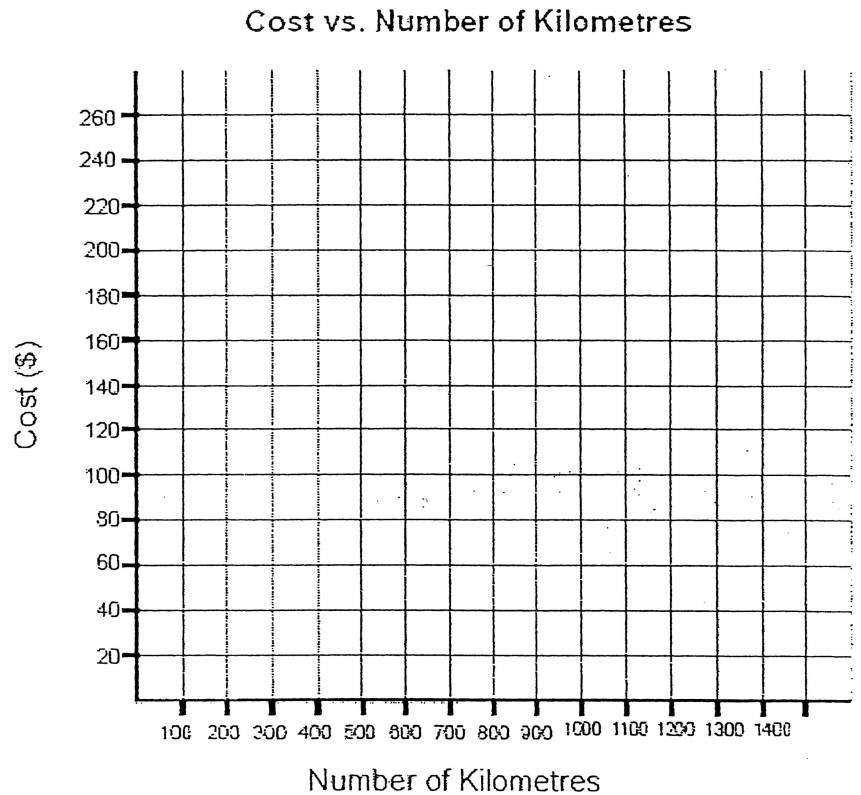


Descriptions, Tables of Values, Equations, Graphs

1. A rental car costs \$50 plus \$0.20 for each kilometre it is driven.
- What is the dependent variable?
 - Make a table of values for the rental fee up to 1000 km.
 - Graph the relationship.



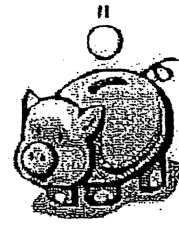
Number of Kilometres	Cost (\$)
0	
100	
200	



- Write an equation to model the relationship. C is the cost and n is the number of kilometres.

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$
- Does this relation represent a partial or direct variation? Explain.
- Determine the rental fee for 45 km. Show your work

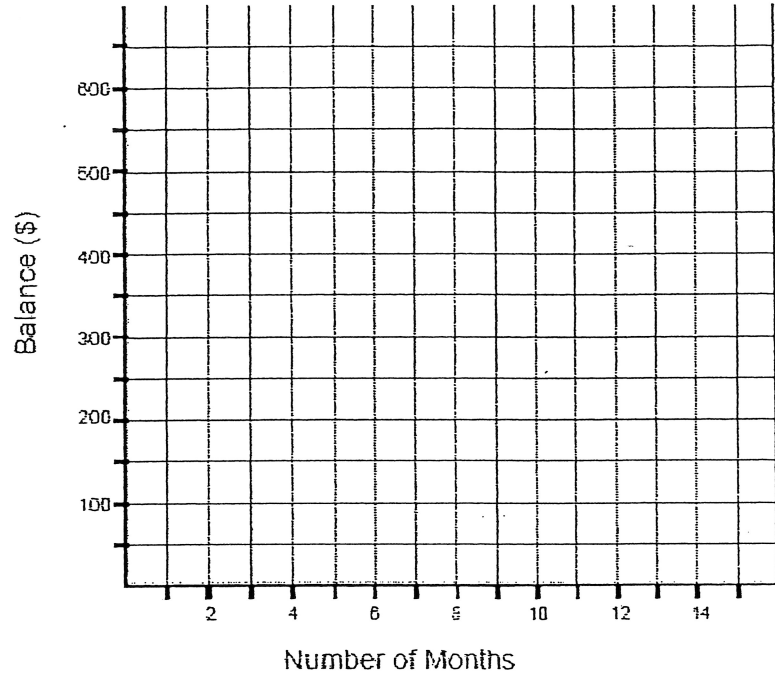
2. There is \$500 in Holly's bank account. She takes out \$50 from her account each month but doesn't put any back in.



- Make a table of values for up to 5 months.
- Graph the relationship.

Time (months)	Balance (\$)
0	
1	
2	
3	
4	
5	

Balance vs. Number of Months



c) Write an equation to model the relationship.

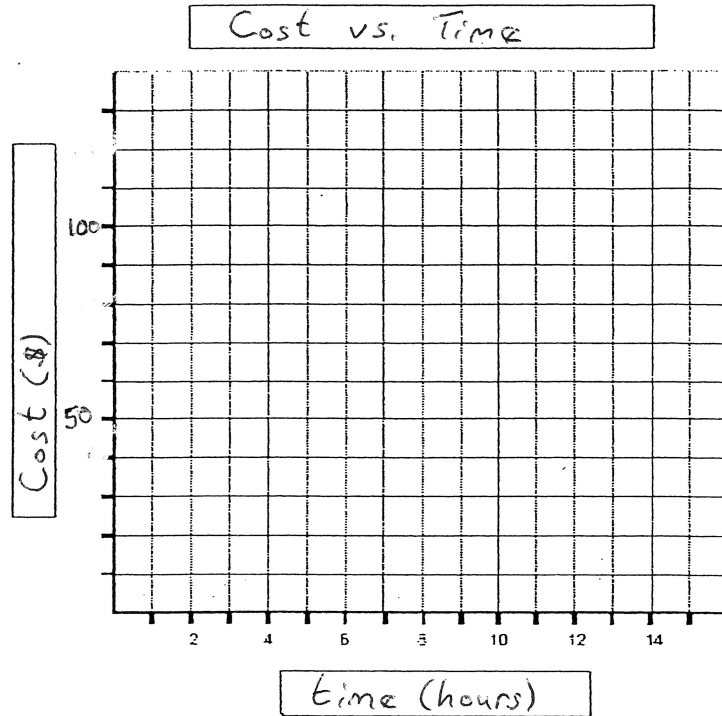
$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

- Does this relation represent a partial or direct variation? Explain.
- How much will Holly have in her account after 8 months? Show your work.
- How many months will have passed when Holly has \$50 in her account? Show your work.

3. Nisha is just learning how to snowboard. White Mountain charges \$10/hour for lessons and \$40 for the lift ticket and snowboard rental.
- Make a table of values for up to 5 hours.
 - Graph the relationship.



Time (hours)	Cost (\$)
0	
1	
2	
3	
4	
5	



- c) Write an equation to model the relationship.

_____ = _____

- d) Does this relation represent a partial or direct variation? Explain.
- e) How much will it cost in total for Nisha to take 2.5 hours of lessons?
Show your work.
- f) If Nisha paid \$75, how long was she at the White Mountain getting lessons?
Show your work.