

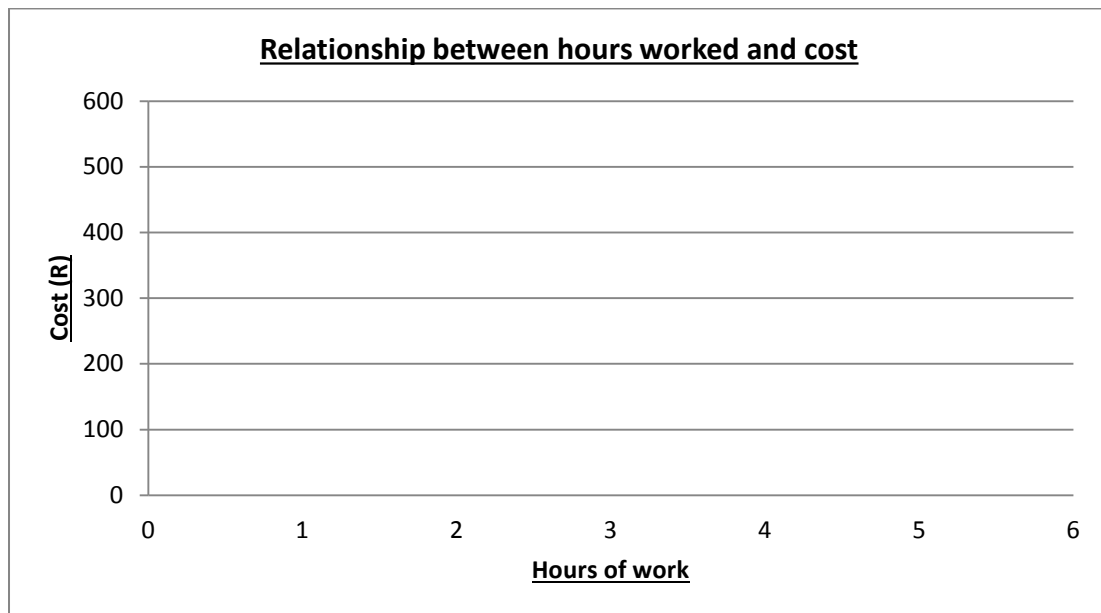
Activity

1. A gardening company offers the following service:
 - a. What is the fixed amount?
 - b. What is the variable amount? Explain why.
 - c. Calculate the cost for a 3-hour job.
 - d. Write down an equation that can be used to calculate the cost of any job. Let x = number of hours and y = cost
 - e. Complete the following table using your equation:



Hours (x)	0	1	2	3	4	5	6
Cost in R (y)							

- f. Which of the quantities in the table is the dependent variable? Explain your answer.
- g. Draw a line graph on the axes on the next page to show the information in the table.



- h. Why doesn't the line graph start at 0 on the y-axis?
 - i. Why is the graph a straight line?
 - j. Does the graph show direct proportion? Explain your answer.
 - k.
2. Mikvah's rent increases by 6,2% per year. In 2016, her rent was R5 000.
 - a. Complete the table below, showing all calculations.

Year	2016	2017	2018	2019	2020
Rent (R)					

- b. By how much will her rent increase from 2016 to 2020?
- c. If her rent had increased by R310 per year instead, how much would she be paying in 2020?
- d. Plot the information from the table on the axes below.



- e. Does the graph show a constant difference or a constant ratio? Explain your answer using evidence from the graph AND your calculations.