Rate of Change and Slope

$$m = \text{slope} = \frac{\text{rise}}{\text{run}} = \frac{\Delta Y}{\Delta X} = \frac{\text{Change in } Y}{\text{Change in } X}$$

Find the rate of change.

1) Cars Washed

Number	Money ($)	
5	40	+40
10	80	+40
15	120	+40
20	160	

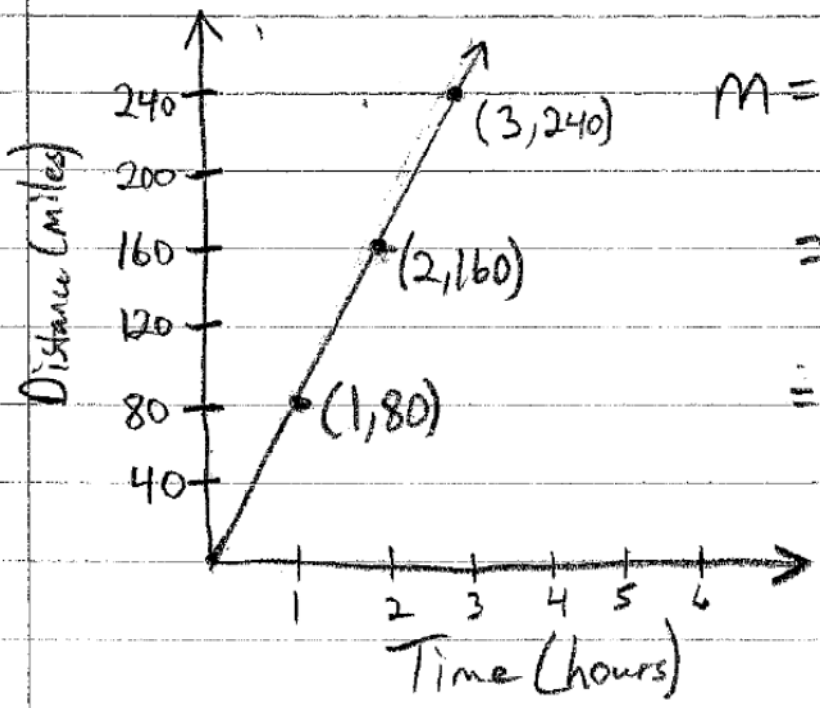
(+5 between each pair of Number values)

$m = \frac{\Delta Y}{\Delta X}$ ← 2nd column / ← 1st column

$= \frac{40}{5}$

= \$8 per car

2) Distance Traveled



$m = \frac{\Delta Y}{\Delta X}$

$= \frac{240-160}{3-2}$

$= \frac{80}{1} =$ 80 miles per hour