

Strand: Algebra

Name: KEY

Skill Addressed: Understanding Ratio

Blk:

Activity: *Slope, Units and Rates of Change – Part B*

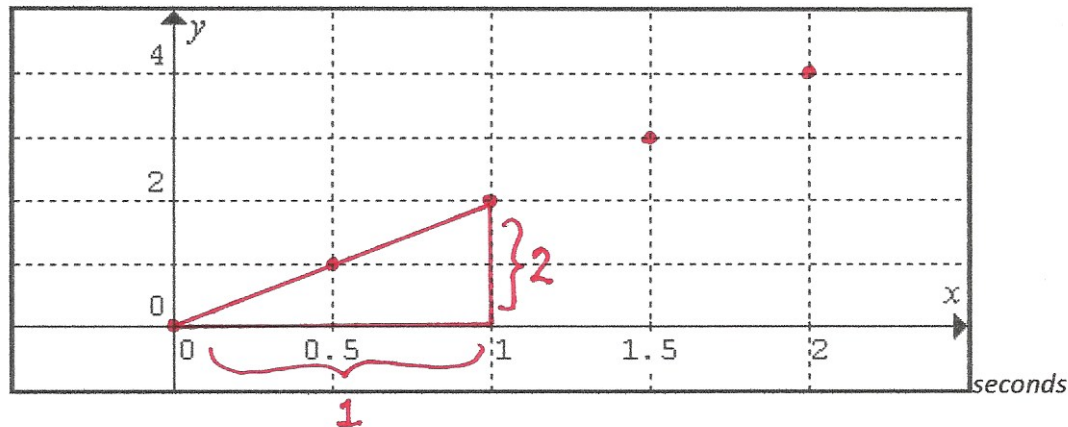
Here is a different type of graph that shows the results of an experiment in a physics lab. A toy car is timed as it reaches each metre along a very long track. The time and distance is recorded.

Data:

Time (seconds)	0.5	1	1.5	2
Distance (metres)	1	2	3	4

Represent the data as a graph:

metres



In this case, what is the slope? 2

What does the slope mean?



Think about it and answer carefully!

Speed (velocity)

The slope is in which units? m per s {hint: think “rise over run”}

Does the slope change? no Explain It is a straight line

If the slope is not changing, what is that saying about what is happening to the car?



Think about it and answer carefully! _____

The car's velocity is not changing (constant). It is not accelerating, nor is it decelerating.