

2.1. Movement

1. Here are nine words connected with how we describe movement. Separate the words using a solidus (/). The first one has been done for you.

speed/distancegravitydeceleratemetregradientcalculateequationaccelerate



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.....



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$$9 + \frac{5x}{2} = 4$$

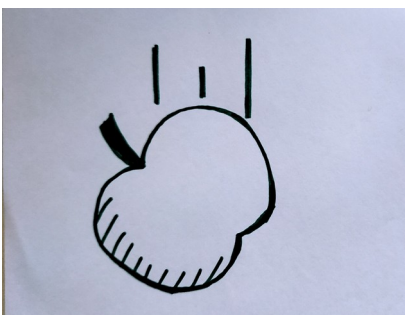
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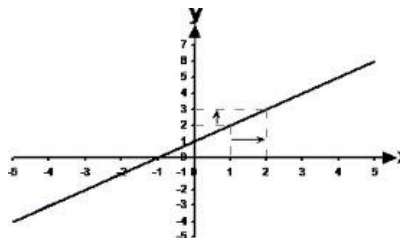
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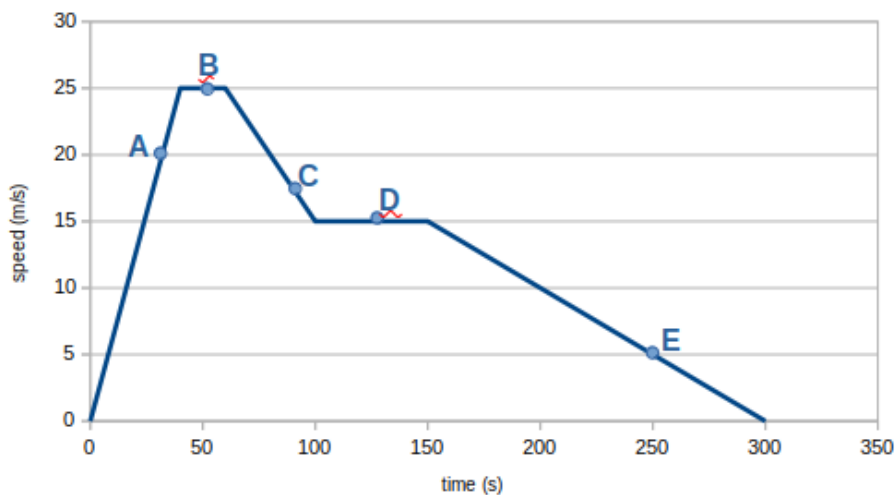
2. The table below contains nine definitions. Use each word from 1 in the correct space in the table to make a full definitions. Again, the first one has been done for you.

WORD	DEFINITION
An <u>equation</u> is a formula	that shows how two or more quantities are related.
To is a verb	which means to work out a numerical value.
The is a noun	that tells us how steep a graph is.
A is a noun	that is a unit of distance.
..... is a noun	which tells us how far something has moved.
..... is a noun	which tells us how fast something is moving.
To is a verb	that means to slow down.
To is a verb	which means to go faster.
..... is a noun	which is another word for 'movement'.

3. In the table below, the first column describes how a car is moving. You have to decide whether the car is accelerating, decelerating or moving at constant speed. Tick the correct column.

Description	Constant speed	Accelerating	Decelerating
Moving at a steady speed			
Going faster			
Slowing down			
Travelling at 30 m/s			
Speeding up			
Coming to a halt			
Increasing speed			
Changing speed from 40 m/s to 20 m/s			
Travelling 25 m each second			

4. A speed against time graph shows us when an object's speed is changing. The graph below shows how a car's speed changed during a short journey.



For each of the points marked on the graph, state what the graph tells you about the car's speed. Use words and phrases from the table in activity 3. Do not use the same word or phrase more than once.

A

B

C

D

E