#### Worksheet

$$0 = 200 \text{ km}$$
 $V = 10 \text{ m/s}$ 
 $1 = \frac{1}{1 \text{ km}} = 200 \text{ adom}$ 
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 $V = \frac{1}{1$ 

$$V = \frac{240 \, \text{km}}{2.0 \, \text{h}}$$

V=120 km/h

$$|| h| \leq x \frac{3.6 \, \text{km/h}}{| m| \leq} = 38 \, \text{km/h}$$

## Sprinter

## Quiz

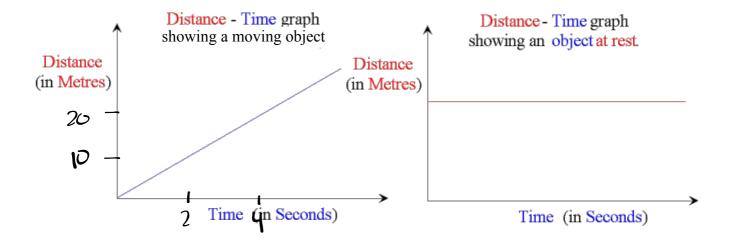
Speed, Distance, Time

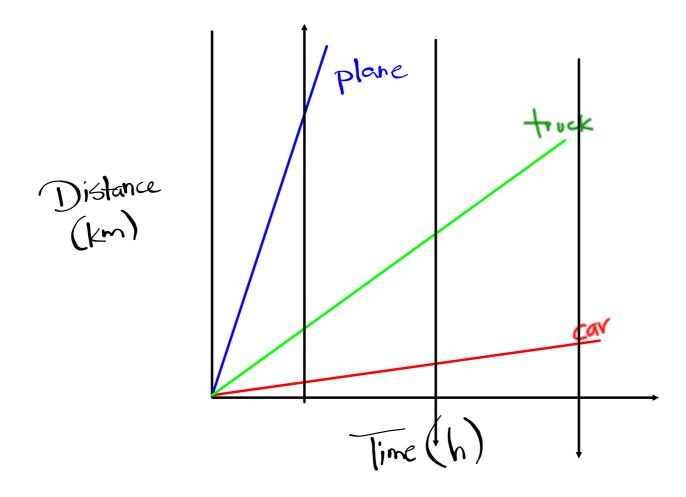
# Distance - Time Graphs

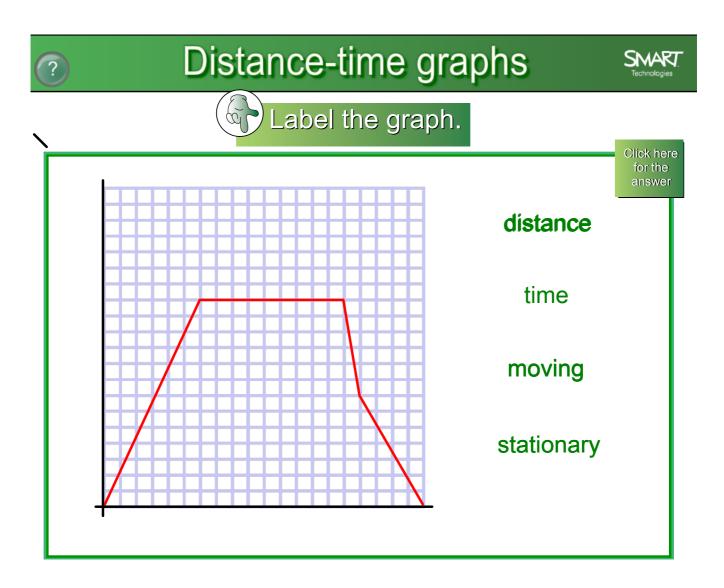
Shows the relationship between distance and time.

Distance is plotted on the y-axis and is the dependent variable

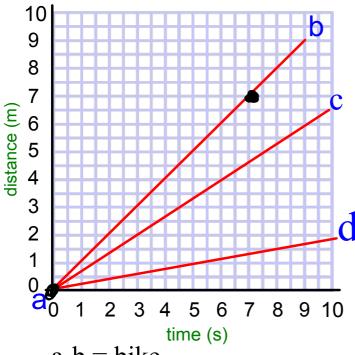
Time is plotted on the x-axis and is the independent variable







### Constant Speed



If an object has a constant speed, it shows as a straight line on a distance-time graph.

The slope of a line on a distance time graph represents the speed.

If you increase the speed the slope will become steaper.

a-b = bike

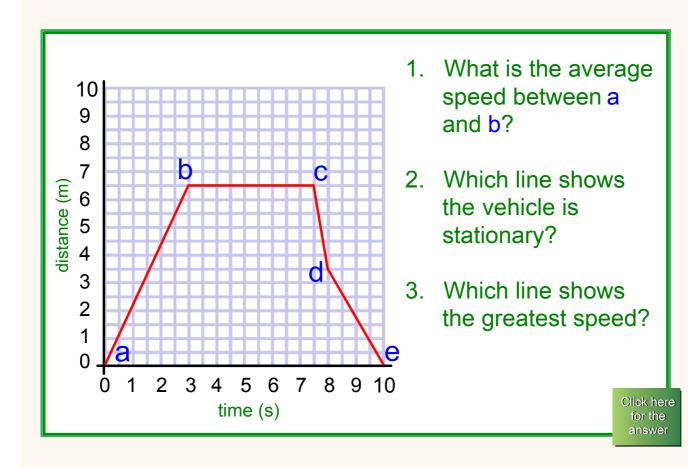
a-c = run

a-d = walk

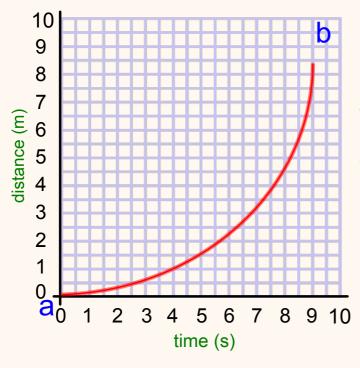
Based on the following graph which is the fastes way to travel?



#### Answer the questions in your exercise books.

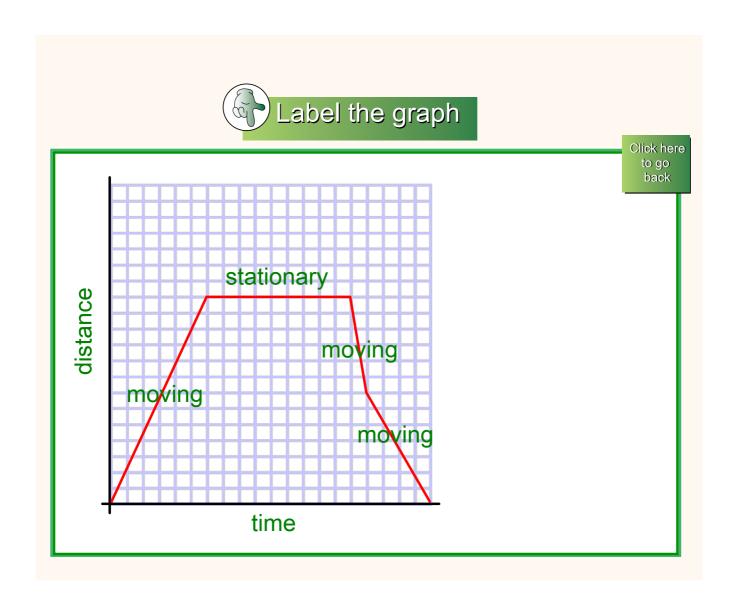






If the velocity of an object changes, it will show as a curve on a distancetime graph.

To find the velocity, work out the slope at any given point.

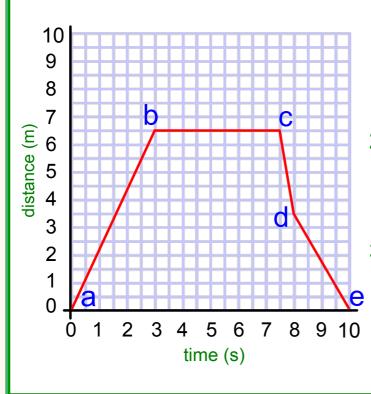


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#### Answer the questions in your exercise books.



- 1. What is the average speed between a and b? 2.1m/s
- 2. Which line shows the vehicle is stationary? bc
- 3. Which line shows the greatest speed?

Click here to go back average speed ex 2 answers.notebook average speed ex 1.notebook