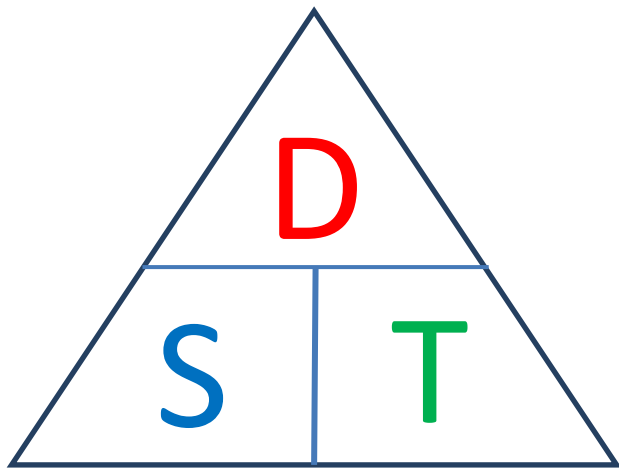


## DISTANCE, SPEED & TIME



$$D = S \times T$$

$$S = \frac{D}{T}$$

$$T = \frac{D}{S}$$

### TIME AS DECIMALS

30 minutes =  $\frac{1}{2}$  hour = 0.5 hours, 15 minutes =  $\frac{1}{4}$  hour = 0.25 hours, 45 minutes =  $\frac{3}{4}$  hour = 0.75 hours

To change any number of minutes to hours in decimal form we divide the number of minutes by 60.

$$\text{i.e. 12 minutes} = \frac{12}{60} = 12 \div 60 = 0.2 \text{ hours}$$

We can change a decimal time back into hours and minutes.

e.g. 3.85 hours = 3 hours and  $(0.85 \times 60)$  mins = 3hrs 51 mins

### DISTANCE-TIME GRAPHS

A distance-time graph can be used to show a journey.

The graph shows a bus journey from Glasgow to Gretna Green.

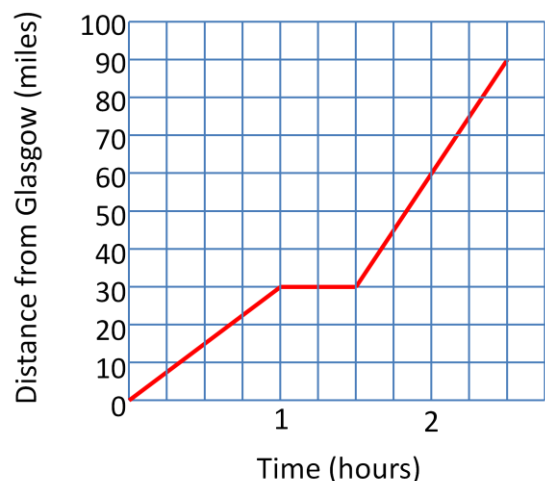
In the first hour the bus travels 30 miles.

The bus then stops for 30 minutes.

In the next hour the bus travels 60 miles.

The steeper the graph the faster the journey.

Bus Journey from Glasgow to Gretna Green



### Distance, Speed & Time Practice

[http://www.cimt.plymouth.ac.uk/projects/mepres/book8/bk8i18/bk8\\_18i2.htm](http://www.cimt.plymouth.ac.uk/projects/mepres/book8/bk8i18/bk8_18i2.htm)

Learn about Distance, Speed & Time. Answer the questions.

[www.supermathsworld.com](http://www.supermathsworld.com) Ask your teacher for login details.

Select ALGEBRA from the options.

Select SPEED, DISTANCE & TIME from the menu. Try on Easy, Medium and Hard level.

[http://www.bbc.co.uk/bitesize/standard/maths\\_i/numbers/dst/revision/1/](http://www.bbc.co.uk/bitesize/standard/maths_i/numbers/dst/revision/1/)

Learn about Distance, Speed & Time. Answer the questions.