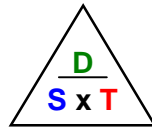


## Speed, Distance and Time

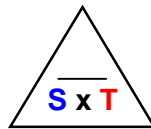
### The Rules:

1. Learn the formula triangle



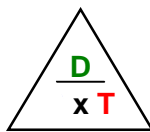
2. Find a value by covering it up and carrying out the remaining calculation:

Distance



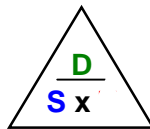
$$= \text{Speed} \times \text{Time}$$

Speed



$$= \text{Distance} \div \text{Time}$$

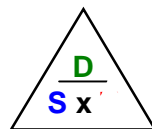
Time



$$= \text{Distance} \div \text{Speed}$$

### Example:

The **distance** between Coventry and Bristol is **100** miles and the motorway **speed** limit is **70** miles per hour (mph).



$$\begin{aligned} &= \text{Distance} \div \text{Speed} \\ &= 100 \div 70 \\ &= 1.43 \text{ hours} \end{aligned}$$

Estimate the **time** it will take to complete the motorway journey.

$$\begin{aligned} &\text{To covert the .43 of an hour to minutes multiply by 60 (minutes)} \\ &= 1\text{hr } 26\text{mins} \end{aligned}$$

3. The units that go into the triangle must be the units that come out of the triangle (unless requested otherwise):

- Distance in miles and Speed in mph must equal Time in hours
- Distance in km and Speed in km/h must equal Time in hours
- Distance in m and Speed in m/min must equal Time in mins
- Distance in cm and Speed in cm/s must equal Time in secs