## Speed, Distance \& Time

## Speed, Distance, Time Calculations

How to change minutes into a decimal

$$
15 \mathrm{mins}=0.25 \text { hour }
$$

So: 3 hours $15 \mathrm{mins}=3.25$ hours

## $30 \mathrm{mins}=0.5$ hour

So: 7 hours $30 \mathrm{mins}=7 \cdot 5$ hours

$$
45 \text { mins }=0.75 \text { hour }
$$

So: 2 hours 45 mins $=2.75$ hours
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## The 3 formulas for Speed, Time \& Distance:



Solving for Speed


Solving for Time

Distance $=$ Speed $\times$ Time

Remember them from this triangle:


A windsurfer travelled 28 km in 1 hour 45 mins.
Calculate his speed.

$$
\begin{aligned}
\text { Speed } & =\frac{\text { Distance }}{\text { Time }} \\
& =\frac{28}{1.75} \longrightarrow 1 \text { hour } 45 \text { mins } \\
& =16 \mathrm{~km} / \mathrm{h}
\end{aligned}
$$

Answer: His speed was 16 km / hour

A salesman travelled at an average speed of $50 \mathrm{~km} / \mathrm{h}$ for 2 hours 30 mins. How far did he travel?

Distance $=$ Speed $\times$ Time

$=50 \times 2.5 \longrightarrow 2$ hour 30 mins
$=125 \mathrm{~km}$

Answer: He travelled 125 km

A train travelled 555 miles at an average speed of 60 mph . How long did the journey take?

Time $=\frac{\text { Distance }}{\text { Speed }}$
$=\frac{555}{60}$
$=9 \cdot 25$ hours $=9$ hours 15 mins

Answert It took 9 hours 15 minuties

## Thank You

