



Speed, Distance & Time

Speed, Distance, Time Calculations





How to change minutes into a decimal

15 mins = 0.25 hour

So: 3 hours 15 mins = 3.25 hours

30 mins = 0.5 hour

So: 7 hours 30 mins = 7.5 hours

45 mins = 0.75 hour

So: 2 hours 45 mins = 2.75 hours

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The 3 formulas for Speed, Time & Distance:

Speed =
$$\frac{\text{Distance}}{\text{Time}}$$

 $\frac{\text{Distance}}{\text{Speed}}$

Distance = Speed × Time

Solving for Speed

Solving for Time

Solving for Distance

Remember them from this triangle:



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

Speed =
$$\frac{\text{Distance}}{\text{Time}}$$
=
$$\frac{28}{1.75} \longrightarrow 1 \text{ hour } 45 \text{ mins}$$

 $= 16 \, \text{km/h}$

Answer: His speed was 16 km / hour

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

Distance = Speed x Time

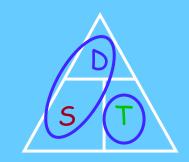


$$= 50 \times 2.5 \longrightarrow 2 \text{ hour } 30 \text{ mins}$$

= 125 km

Answer: He travelled 125 km

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



= 9.25 hours = 9 hours 15 mins

Answer: It took 9 hours 15 minutes





Thank You