



# Revision Guides

# Distance, Rate and Time

## Time & Distance



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# Hello

You'll usually encounter a distance, rate, and time questions in TASC Test, and they are always in the form of word problem.

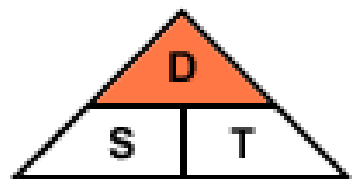
In math, Distance, Rate and Time are three important concepts you can use to solve many problems if you know the formula.

# Use the Formula

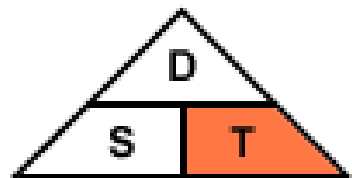
When you are solving problems for distance, rate, and time, you will find it helpful to apply this formula that solves distance, rate, and time,

$$\text{distance} = \text{rate} \times \text{time}$$

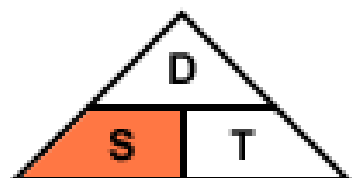
This picture is helpful:



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



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



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

# Example -

Let's say you rode your bike 2 hours and traveled 24 miles. What is your rate of speed?

Use the formula here...

$$\text{Speed} = \text{distance}/\text{time}$$

Your rate of speed is 24 miles divided by 2 hours, so:

24 miles  $\div$  2 hours = 12 miles per hour.

Can you solve more.....

# Tips -

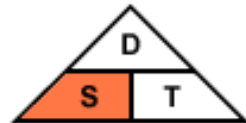
Remember this Triangle -



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



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



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

To find distance, speed is beside time, so distance is speed multiplied by time.

To Find the Time, distance is over speed in the triangle, so time is distance divided by speed.

To find the speed, distance is over time in the triangle, so speed is distance divided by time.



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