

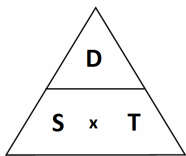
(19) Speed Distance Time and Estimations

When answering questions on estimations round each number to one significant figure and calculate from there!

Round each of the following to 1 significant figure: (1) 1.3 (2) 9.78 (3) 106.23 (4) 0.48
Estimate the answer to: 9.7×4.8
Estimate the answer to: 103.2×19.7
Estimate the answer to: $\frac{40.6}{7.9}$
Estimate the answer to: $\frac{2.1 + 11.3}{5.9}$
Estimate the answer to: $\frac{108 + 9.8}{0.49}$
Estimate the answer to: 5.32×1.98
John sees some rope in a shop. The rope is £1.08 a meter and he needs 9.7 meters. Suggest a suitable amount of money he should take to cover the cost, showing your calculations.
Helen works in a factory. She earns £5.98 an hour and works for 39 hours a week. Explain why her wages cannot be more than £240 per week.

Speed, Distance, Time

Often the questions just need common sense. If you are stuck you can use the triangle below. If you want Speed, put your finger over the S and you will do Distance ÷ Time. For Distance, its Speed x Time. For Time its Distance ÷ Speed.



Don't forget units

John Bikes at 10mph for 6 hours. What distance does he cover?
It takes Jenny 3 hours to travel 180 miles. What is her average speed?
Fred walks 10km at an average of 4 kph. How long does it take him to complete the 10km?
Peter Drives home from work. The 30 mile journey takes 45 minutes. What was his average speed? (be careful!)
How long will it take to cover 180 meters if someone is walking at 6 meters per second?
Sue needs to drive to her friends. She can average 50mph and the journey is 150 miles. If she needs to be at her friends for 10am what time should she leave home?
Jimmy gets on a train. It travels from Town A to Town B which is 120km. The train sets out at 13:16 and arrives at 16:16. What was the average speed of the train?

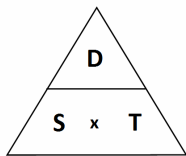
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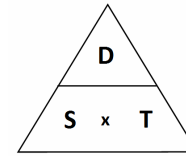
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