

**Mild Questions**

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| An airplane travels at 500 mph. How far will the plane travel in 2 hours?  Distance = Speed x time  = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_ miles |
| An athlete runs at a constant speed of 10 metres per second. How long will it take the athlete to run 200m?  Time = Distance ÷ Speed  = \_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_ seconds |
| A snail travels at 1 metre per hour. How long will it take to travel 8 metres  Time =  \_\_\_\_\_ hours |
| A football travels at 10 m/s. How far will it travel in 8 seconds?  Distance =  \_\_\_\_\_ metres |
| **Progress check**  Do you feel ready to move on to the next level?  Check with the teacher if you’re not too sure! |
| A golf ball travels at 15 m/s. How long will it take to get to the hole 60 metres away? |
| A car travels from Coventry to Bristol at 50 mph. The journey is 100 miles away. How many hours will it take? |
| A bullet travels at 100 m/s. How far will it travel after 4 seconds? |
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**Medium Questions**

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| A cyclist is travelling at 20 mph. How long will it take for the cyclist to cycle 10 miles? |
| A car completes a 12 mile trip from Coventry to Birmingham at 60mph. How long would it take? |
| A F1 car travels at 200 km/h. How far would it travel after 1.5 hours? |
| A grand liner can reach up to 80 mph. How long would it take to cross the Atlantic ocean? (1600 miles) |
| **Progress check**  Do you feel ready to move on to the next level?  Check with the teacher if you’re not too sure! |
| An athlete can jog up to 8 m/s. How far could he jog after 2 minutes? |
| A rocket travels at 200 km/h. How far would it reach after 15 minutes? |
| A snail travels at 12 metres per hour. How far could it travel after 1 day? |
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**HOT Questions**

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| A swimmer swims at 5 m/s. How long would it take to swim 5 laps of a 50m pool? |
| A car travels at 30 mph for half an hour then travels at 70 mph for 2 hours. How far does the car travel in total? |
| A scooter travels at 25 mph. How long does it take to travel 80 km?  (1 mile = 1.6 km) |
| A motorbike travels at 40 mph for 20 miles, then travels at 50 mph for 5 miles. How long does this journey take? |
| A snail can travel at 50 cm per min. How long will it take to travel 20 metres? |
| A runner can jog at 5 m/s. How many laps of a 400 m track could she complete in 4 minutes? |
| An athlete can jog up to 5 m/s. How long will it take her to complete the London Marathon? (42Km)  (Convert km into m)  (Convert seconds into minutes and then into hours) |

**Converting Units**

In some of the questions you might need to find out the speed/distance/time but the units are not the same. You need to convert the units to find what you’re looking for.

For example:

A car travels 2 miles in 2 minutes. What’s the speed in mph?

We need to convert minutes into hours!

There are 60 minutes in an hour

X 60

÷ 60

Minutes

Hours

60

So for our example, we will convert 2 minutes into hours by doing:

2÷60 = 0.033

So speed = distance ÷ time

= 2 ÷ 0.033 = 60mph

Convert these units by filling in the gaps. Think how many are in each unit…

Km

Miles

X 1.6

÷ \_\_

X \_\_

÷ \_\_

÷ \_\_

X \_\_

Metres

Km

X \_\_

÷ \_\_

Seconds

Minutes

Hours

Days

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