


# The need for speed: Speed-distance-time calculations

 Complete these speed-distance-time calculations for real shipping-related scenarios



Q1 - A cargo ship is travelling from Minas Geris in South America with a cargo hold full of finest quality coffee beans. It departs Minas Geris at 10am on 23rd July. It needs to take a 4 hour stop in Durban, South Africa to refuel and must arrive in Yokohama, Japan by 27<sup>th</sup> July at 12pm to unload its cargo.

The journey is a total distance of 7,480km.

What is the **average speed** the cargo ship carrying coffee beans should be travelling at in order to reach Yokohama, Japan on time? (*Show your workings overleaf and give units*).



Q2 - A cargo ship is travelling from Los Angeles, North America to Singapore in order to prepare clothing for a well-known clothes store in the UK.

The cargo ship is travelling at an average speed of 65km/h and needs to travel a total distance of 12,560km.

If the cargo ship departs Los Angeles on 11<sup>th</sup> February at 11am and needs to take a four day stop-off in Singapore to process the cotton into clothing, what **date and time** can the well-known clothes store in the UK expect to receive their clothing? (*Show your workings overleaf and round your answer to the nearest hour*).

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