

Topics 36 - 40: Exam Style



Question 1

A carpenter needs a piece of timber that is 7 feet 6 inches long.

For this question use $1 \text{ inch} = 2.54 \text{ cm}$ and $1 \text{ foot} = 12 \text{ inches}$.

- (a) Convert 7 feet 6 inches to centimetres.
- (b) Timber is sold in lengths of 2.4 metres. Is one length long enough? Show how you know.
- (c) Work out the length of timber left after the piece is cut. Give your answer in centimetres.

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Question 2

A café needs 9 imperial pints of milk for a large catering order.

For this question use 1 imperial pint = 568 ml.

- (a) Convert 9 pints to millilitres.
- (b) Give this amount in litres.
- (c) Milk is sold in 2-litre bottles costing £1.85 each. Work out the minimum number of bottles required and the total cost.

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Question 3

A suitcase has a mass of 3 stone 8 pounds.

For this question use 1 stone = 14 lb and 1 kg = 2.2 lb.

- (a) Convert the mass to pounds.
- (b) Convert the mass to kilograms.
- (c) An airline allows a maximum luggage mass of 25 kg. Is the suitcase within the limit? Work out how far below or above the limit it is.

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Question 4

Miles	0	10	20	30	40	50
Kilometres	0	16	32	48	64	80

The information below represents points on a miles-to-kilometres conversion graph.

- (a) Estimate the number of kilometres in 35 miles.
- (b) Estimate the number of miles in 72 km.
- (c) A road sign shows a destination is 45 miles away. A passenger says this is less than 70 km. Is the passenger correct? Show how you know.

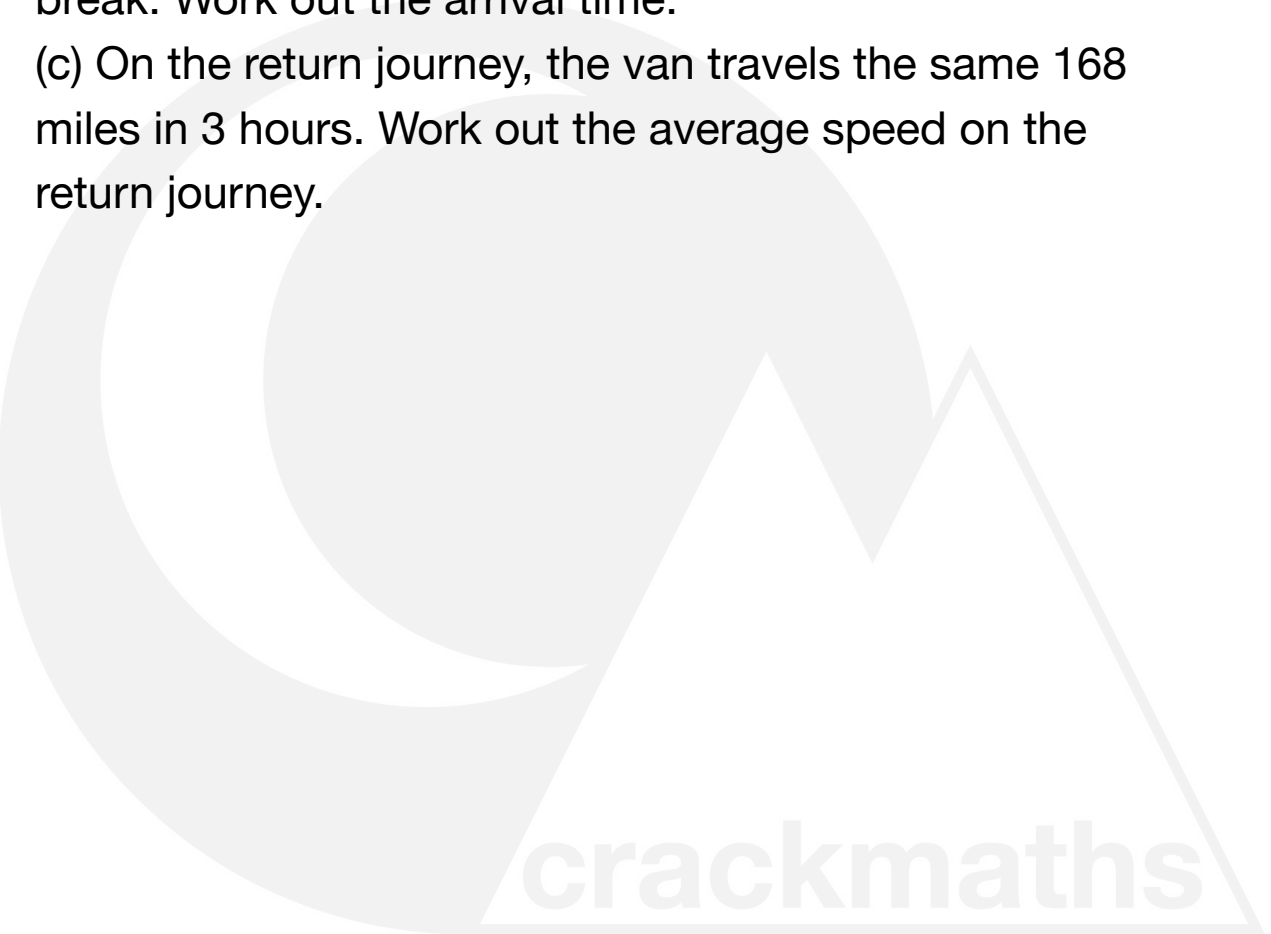
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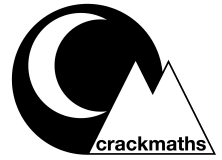
Question 5

A van travels 168 miles at an average speed of 48 mph.

- (a) Work out the journey time.
- (b) The driver leaves at 08:50 and stops for a 40-minute break. Work out the arrival time.
- (c) On the return journey, the van travels the same 168 miles in 3 hours. Work out the average speed on the return journey.



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Question 6

A delivery driver travels 96 km from a depot to a customer. The journey takes 1 hour 20 minutes.

- (a) Work out the driver's average speed in km/h.
- (b) The driver returns along the same route at an average speed of 64 km/h. Work out the return journey time.
- (c) The driver is paid £15.20 per hour for driving time. Work out the total pay for both journeys.