Maths
Junior Certificate
Ordinary Level

Past Exam Questions on
Distance/Speed/Time

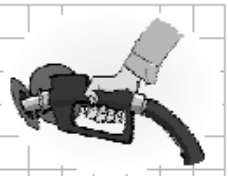
Q1 Part (b) 2011 Paper 2

John travelled by car from Tralee to Galway. He left Tralee at 09:45 and arrived in Galway at 12:57.

(a) How long did it take John to travel from Tralee to Galway? Give your answer in hours and minutes.

(b) The distance from Tralee to Galway is 200 km. Calculate John's average speed, in km/h.

(c) John had estimated it cost 22 cent per km to drive his car. How much did it cost him to drive his car from Tralee to Galway?



Q1 Part (b) 2010 Paper 2

(b) (i) Dara left Lucan by car at 09:25 and arrived in Sligo at 11:55.

How long did it take Dara to travel from Lucan to Sligo?
Give your answer in hours and minutes.

(ii) The distance from Lucan to Sligo is 195 km.

Calculate Dara's average speed, in km/h.

(iii) On the return journey from Sligo to Lucan, Dara's average speed was 60 km/h.

How long, in hours and minutes, did the return journey take?

Q1 Part (b) 2009 Paper 2

1(b) Tara went by car from Dublin to Wexford, a journey of 150 kilometres.
Tara took 2 hours and 30 minutes to complete the journey.

(i) Tara left Dublin at 10:15. At what time did she arrive in Wexford?

(ii) Calculate the average speed, in km/h, for Tara's journey.

(iii) Tara's car emitted 19 500 grammes of carbon dioxide gas in travelling from Dublin to Wexford.
How many grammes of carbon dioxide did Tara's car emit for every kilometre travelled?

Q1 Part (b) 2008 Paper 2

1(b) A bus leaves Sligo at 11:45 and arrives in Derry at 14:15.

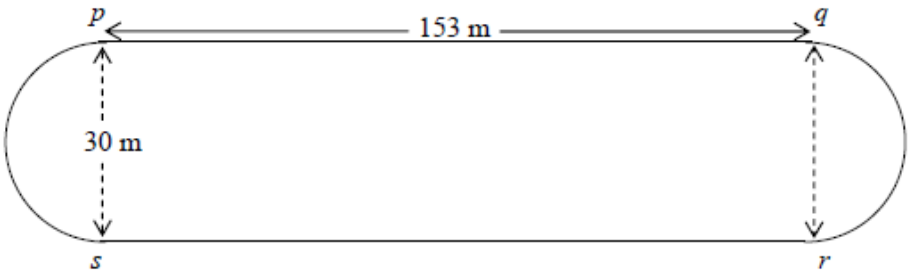
(i) How long does the bus journey take?
Give your answer in hours and minutes.

(ii) The bus travels a distance of 135 km.
Calculate the average speed, in km/h, for the journey from Sligo to Derry.

(iii) The bus uses 1 litre of diesel for every 4·5 km travelled.
On a particular day, diesel cost 115·9 cent per litre.
Find the cost of the diesel used by the bus on that day
for the journey from Sligo to Derry.
Give your answer correct to the nearest euro.

Q1 Part (c) 2008 Paper 2

1 (c) An athletics track has two equal parallel sides $[pq]$ and $[sr]$ and two equal semi-circular ends with diameters $[ps]$ and $[qr]$.
$|pq| = |sr| = 153$ metres, and $|ps| = |qr| = 30$ metres.



(i) Taking π as $3{\cdot}14$, calculate the length of one of the semi-circular ends, correct to the nearest metre.

(ii) Calculate the total length of one lap of the track, correct to the nearest metre.

(iii) Noirín ran a 5000 metre race on the above track in 15 minutes. Calculate, in seconds, the average time it took Noirín to complete one lap of the track during that race.

Q1 Part (a) 2007 Paper 2

1. (a) One lap of a running track measures 440 m. James runs 50 laps of that track. What distance, in kilometres, does James run?

Q1 2006 Paper 2

1 (c) Peter travelled 50 km to a football match and he returned home by the same route when the match was over.

(i) Peter travelled to the match at an average speed of 60 km/h.
How many minutes did the journey to the match take?

(ii) Peter arrived at the match at 17:35. At what time did he leave from home to travel to the match?

(iii) Peter took 75 minutes to travel home from the match.
Calculate the average speed, in km/h, for this journey.

Q1 Part (b) 2005 Paper 2

1(b) Cormac went by car from Limerick to Cork, a journey of 100 km.
He travelled at an average speed of 80 km/h.

(i) How many hours and minutes did it take Cormac to complete the journey?

(ii) Cormac left Limerick at 11:15. At what time did he arrive in Cork?

(iii) Cormac's car used 1 litre of petrol for every 16 km travelled. On that day petrol cost 99 cent per litre. Find the cost of the petrol used on Cormac's journey from Limerick to Cork. Give your answer to the nearest euro.