Measures

Question Paper

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Topic	Shape, Space and Measures
Sub Topic	Measures
Booklet	Question Paper

Time Allowed: **50 minutes**

Score: **/41**

Percentage: **/100**

Grade Boundaries:

9	8	7	6	5	4	3	2	1
>90%	80%	70%	60%	50%	40%	30%	20%	10%

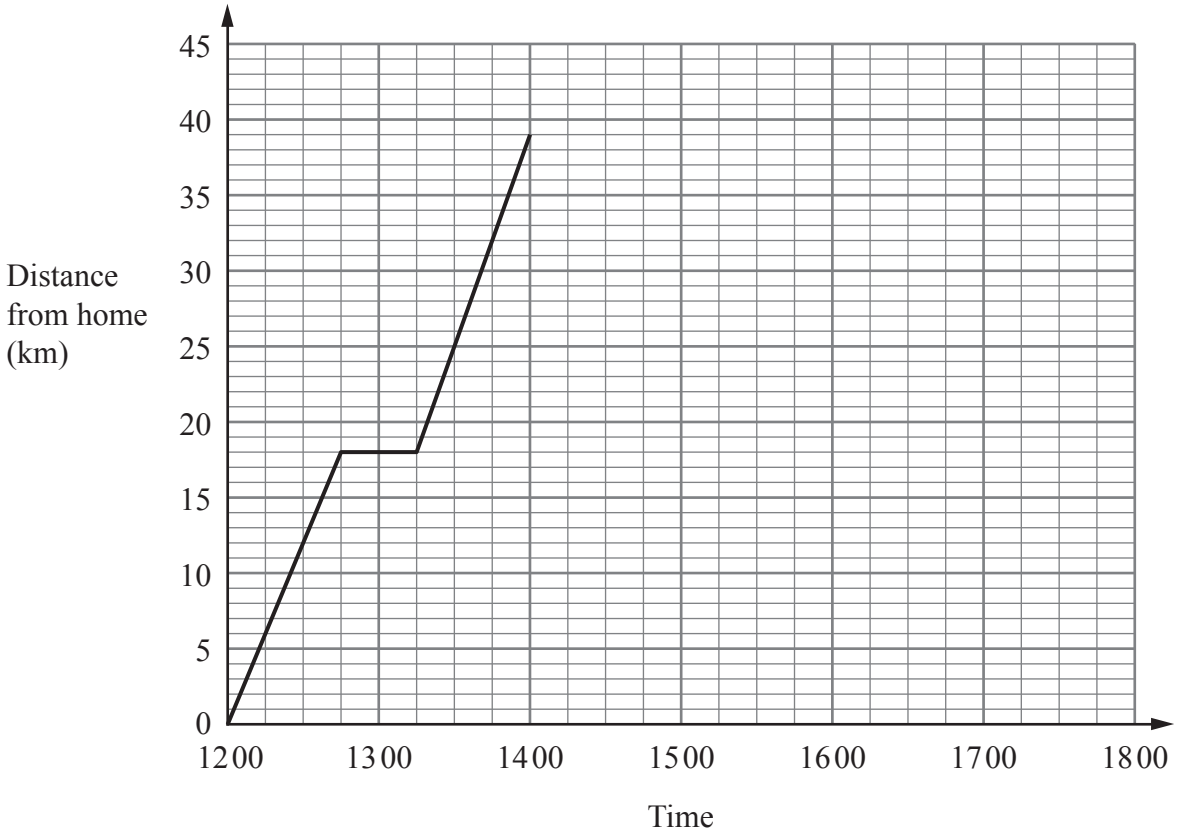
1 An aeroplane flew from Qatar to Bahrain.
The distance flown was 135 km.
The average speed was 180 km/h.

Work out the time taken.
Give your answer in minutes.

..... minutes

(Total for Question 1 is 3 marks)

2 Bhavik left his home at 12 00 to cycle to Sam's house.
On the way Bhavik stopped for a rest, and then continued his journey.
The distance-time graph shows his journey.



(a) (i) For how many minutes did Bhavik stop for a rest?

..... minutes

(ii) After his rest, how many more kilometres did Bhavik cycle to Sam's house?

..... km

(2)

(b) Bhavik stayed at Sam's house for 2 hours.
He then cycled back to his home.
He arrived home at 17 15.

Show all this information on the graph. **(2)**

(c) Write down the times at which Bhavik was 24 kilometres from his home.

.....

.....
(2)

(d) Work out the average speed, in kilometres per hour, of Bhavik's journey from Sam's house back to his home.

Give your answer correct to 1 decimal place.

..... km/h
(3)

(Total for Question 2 is 9 marks)

3 Wendy travelled on the Eurostar train from St Pancras station to the Gare du Nord station.
The Eurostar train travelled a distance of 495 km.
The journey time was 2 hours 15 minutes.

Work out the average speed of the Eurostar train in kilometres per hour.

..... km/h

(Total for Question 3 is 3 marks)

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4 Yoko flew on a plane from Tokyo to Sydney.
The plane flew a distance of 7800 km.
The flight time was 9 hours 45 minutes.

Work out the average speed of the plane in kilometres per hour.

..... km/h

(Total for Question 4 is 3 marks)

5 A plane flew from Frankfurt to Hong Kong.
The flight time was 10 hours 45 minutes.
The average speed was 852 km/h.

Work out the distance the plane flew.

..... km

(Total for Question 5 is 3 marks)

6

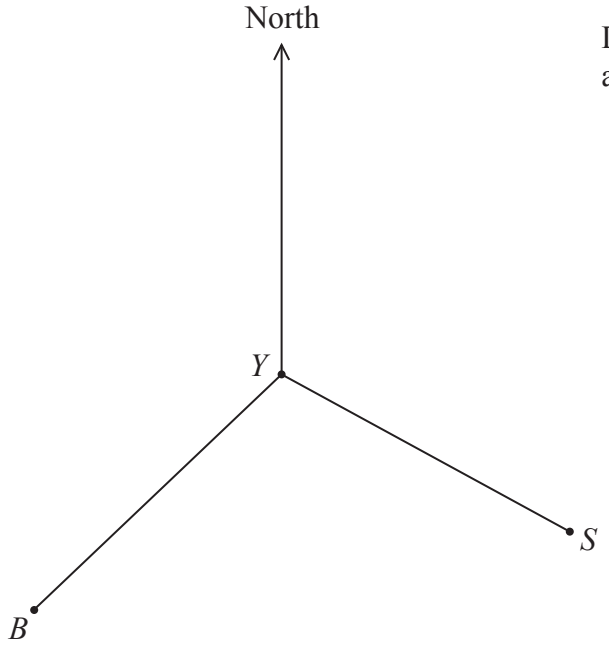

Diagram **NOT** accurately drawn

The diagram shows the positions of a yacht Y, a ship S and a beacon B.
The bearing of B from Y is 228°

(a) Find the bearing of Y from B.

.....°

(2)

The bearing of S from Y is 118°

(b) Find the size of the angle BYS.

.....°

(1)

(c) Given also that $BY = SY$, find the bearing of S from B.

..... °

(2)

(Total for Question 6 is 5 marks)

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7 Here is part of a timetable for the Paris to Montpellier express train service.

Paris	06 07	10 07	12 07	18 07	20 07
Valence	08 22	12 24	14 24	20 24	22 24
Nimes	09 09	13 05	15 05	21 05	23 05
Montpellier	09 37	13 34	15 34	21 34	23 34

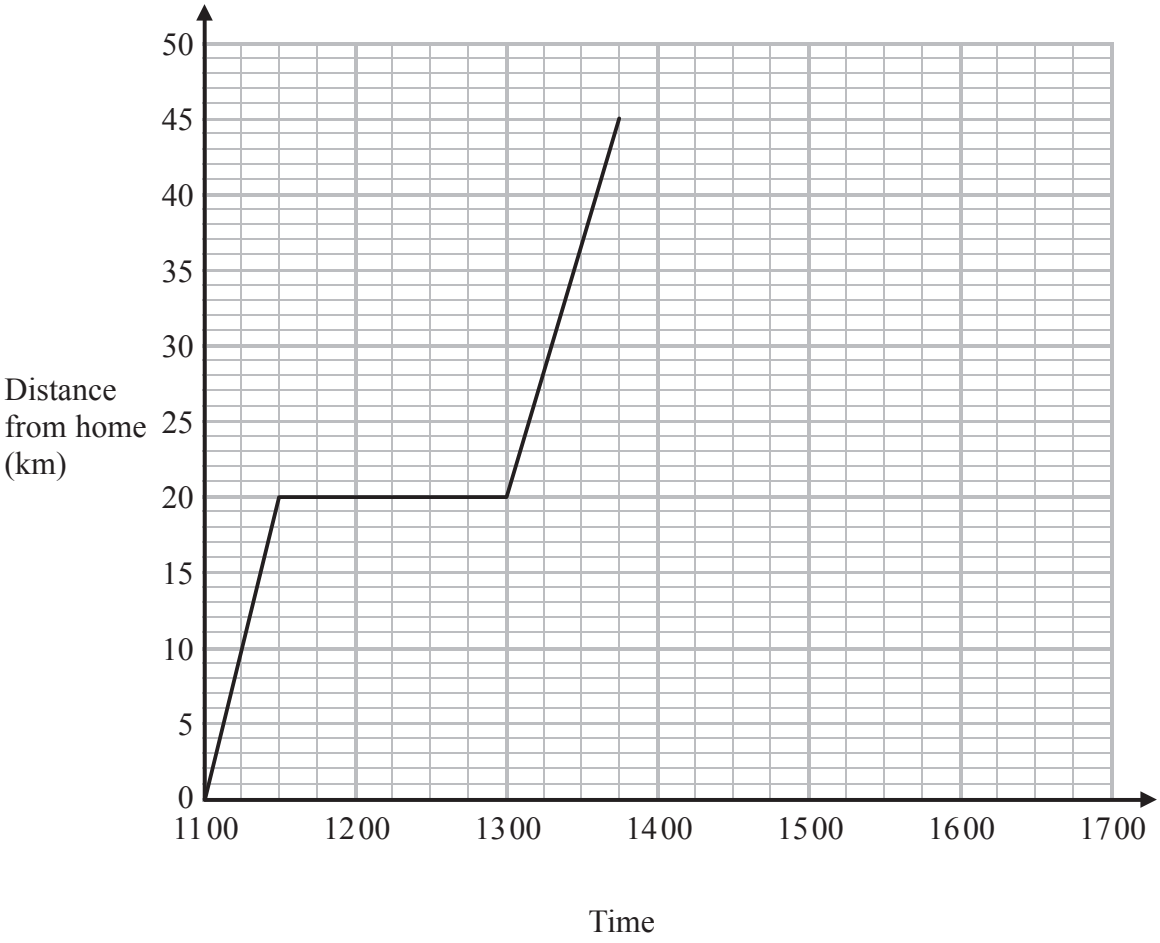
The average speed of the 20 07 train from Paris is 224 km/h.

Work out the distance this train travels from Paris to Montpellier.

..... km

(Total for Question 7 is 3 marks)

8 Lia left home at 1100 to drive to a shopping centre.
On her way, she stopped at a friend's house.
Here is the distance-time graph for her journey to the shopping centre.



(a) (i) For how many minutes did Lia stay at her friend's house?

..... minutes

(ii) How far is it from her friend's house to the shopping centre?

..... km

(2)

Lia stayed at the shopping centre for $1\frac{1}{2}$ hours.

She then drove back home.
She arrived home at 16 30

(b) Show all this information on the distance-time graph.

(2)

(Total for Question 8 is 4 marks)

9 The distance from Kyoto to Hakata is 638 kilometres.
The train journey from Kyoto to Hakata takes 2 hours 45 minutes.

Work out the average speed, in kilometres per hour, of the train from Kyoto to Hakata.

..... km/h

(Total for Question 9 is 3 marks)

10 The diagram shows two points S and T.
The bearing of T from S is 043°

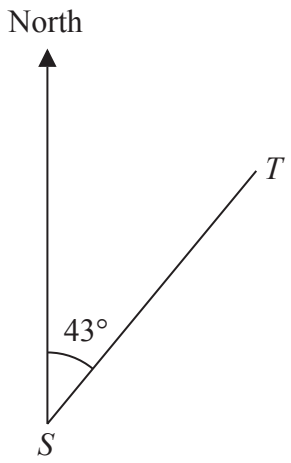


Diagram **NOT** accurately drawn

Work out the bearing of S from T.

.....°

(Total for Question 10 is 2 marks)

11 A plane flew from Bogotá to Quito.

The distance the plane flew was 725 km.
The time taken by the plane was 1 hour 24 minutes.

Work out the average speed of the plane.
Give your answer correct to 3 significant figures.

..... km/h

(Total for Question 11 is 3 marks)