

OXFORD CAMBRIDGE AND RSA EXAMINATIONS

LEVEL 1 FUNCTIONAL SKILLS MATHEMATICS

09865/RB

This assessment may be taken within these dates:

28 FEBRUARY – 4 MARCH 2011

RESOURCE BOOKLET

This booklet contains information needed to answer the tasks for the OCR Functional Skills Mathematics assessment March 2011.

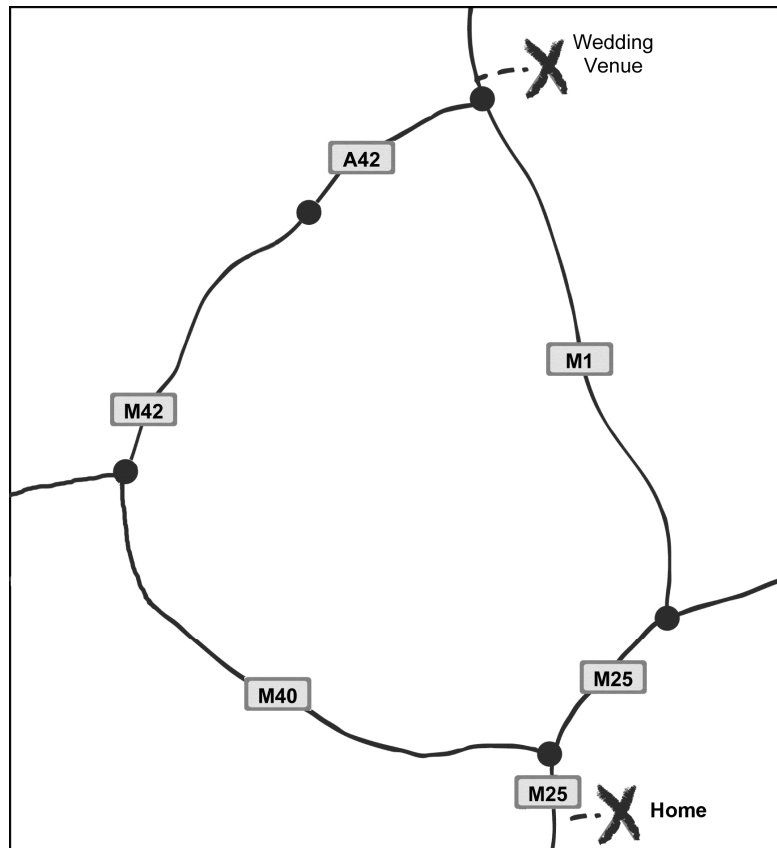
Task 1 – Get me to the church on time**Route 1**

	Distance (miles)	Expected average speed (miles per hour)
M25 to M1	19	50
M1 to Junction 24	105	60

Route 2

	Distance (miles)	Expected average speed (miles per hour)
M25 to M40	4	50
M40 to M42	85	50
M42 to A42	33	45
A42 to M1	15	40
M1 to Junction 24	3.5	60

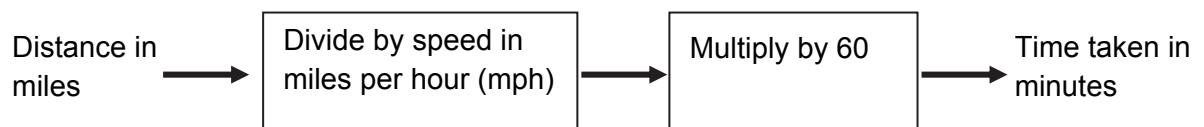
Map showing two possible routes from Peter's home to the wedding.



Peter knows that it takes:

- 10 minutes to travel the 2 miles from his house to the M25
- 15 minutes to travel the 5 miles from the M1 Junction 24, to the wedding venue

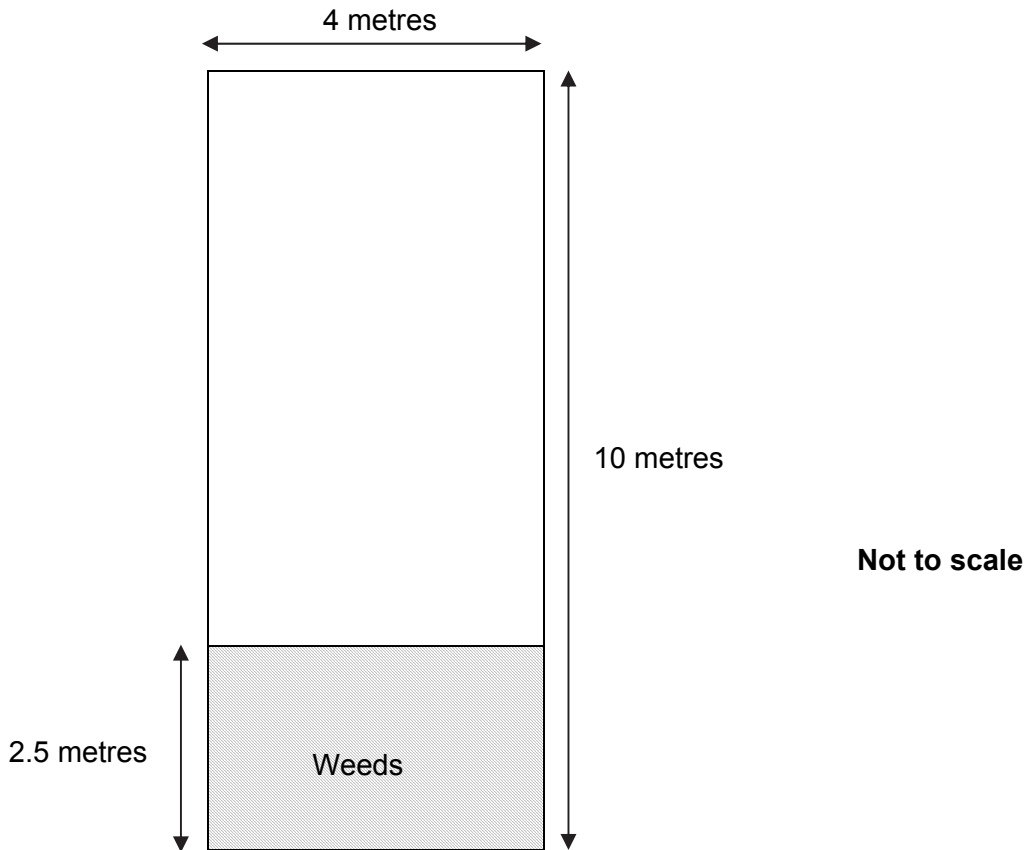
This function machine is used to work out how many minutes a car takes to travel a distance when it travels at a steady speed.



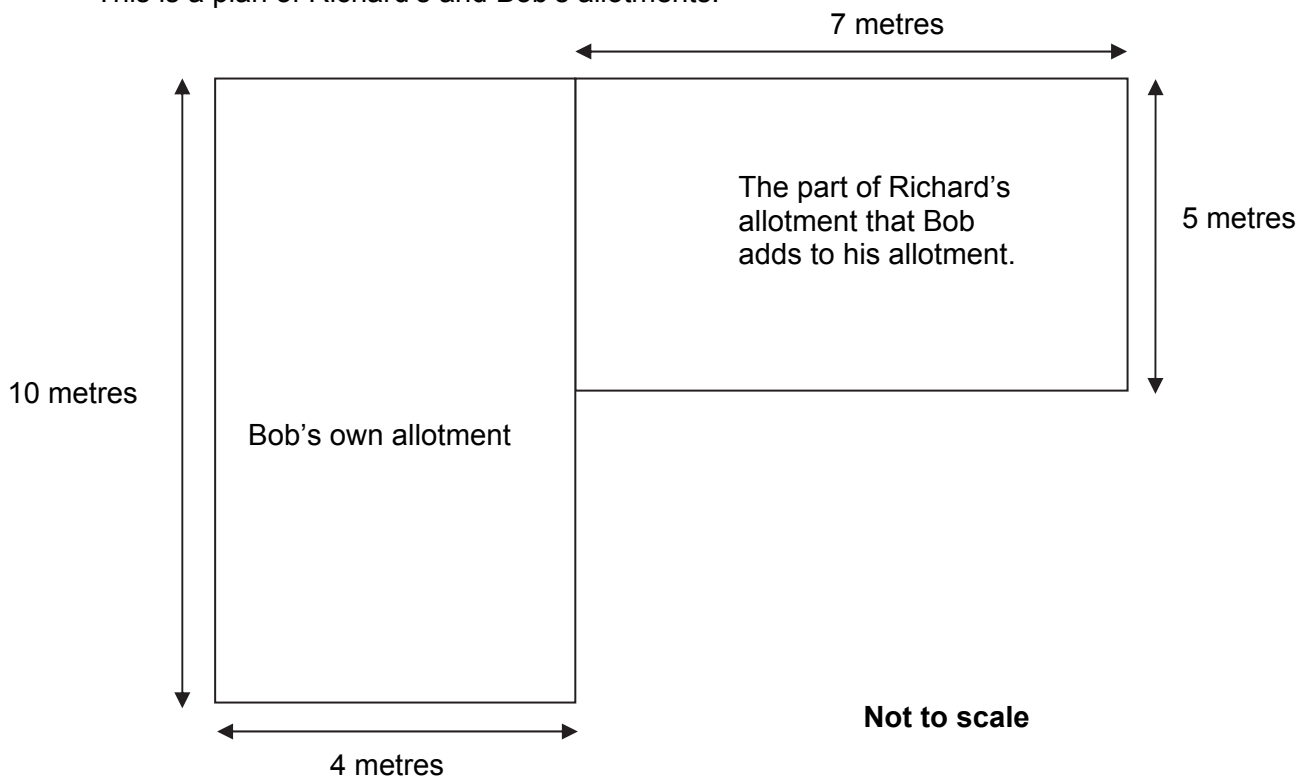
[Turn over

Task 2 – Green Fingers

This is a plan of Bob's allotment.
The shaded area is covered with weeds.



This is a plan of Richard's and Bob's allotments.



DIY costs for fencing

Lander Fencing

1 metre of fencing
(Length and price include posts)
Just £4.95!

**BORDERLINE
FENCES**

Pack of 10 metres of fencing
(Length and price include posts)
£48.50

SMART FENCE

50 METRE PACK OF FENCING
(LENGTH AND PRICE INCLUDE POSTS)
£260

Now 20p in every £1
off marked price at
Smart Fence

All three companies charge these prices for garden gates:

- 1 metre wide (including posts) £35
- 2 metres wide (including posts) £45



Task 3 – Keep on running

These are the times, in hours and minutes, that four runners took to run some half marathons. They did not all run in all of the races.

	1 st Half Marathon Time	2 nd Half Marathon Time	3 rd Half Marathon Time	4 th Half Marathon Time
Jane		1 h 50 min	1 h 49 min	1 h 45 min
Ravinda	1 h 58 min	1 h 58 min	1 h 57 min	1 h 51 min
Sula	2 h 7 min	1 h 52 min	1 h 46 min	
Emma	1 h 45 min			1 h 38 min

These are the times, in minutes, which the four runners took to run a 10-km race.

	10-km race time
Jane	47 min
Ravinda	56 min
Sula	51 min
Emma	45 min

A half marathon race is 13.1 miles long.
A full marathon race is 26.2 miles long.

Here are two different methods used to predict the time to run a full marathon.

Method 1

Double your fastest half marathon time.

Add 20 seconds for each mile of the marathon.

Method 2

Multiply your time for a 10-km race by 5.

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