

**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**

**SUITABLE FOR THE VISUALLY IMPAIRED**

**RESOURCE BOOKLET**

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

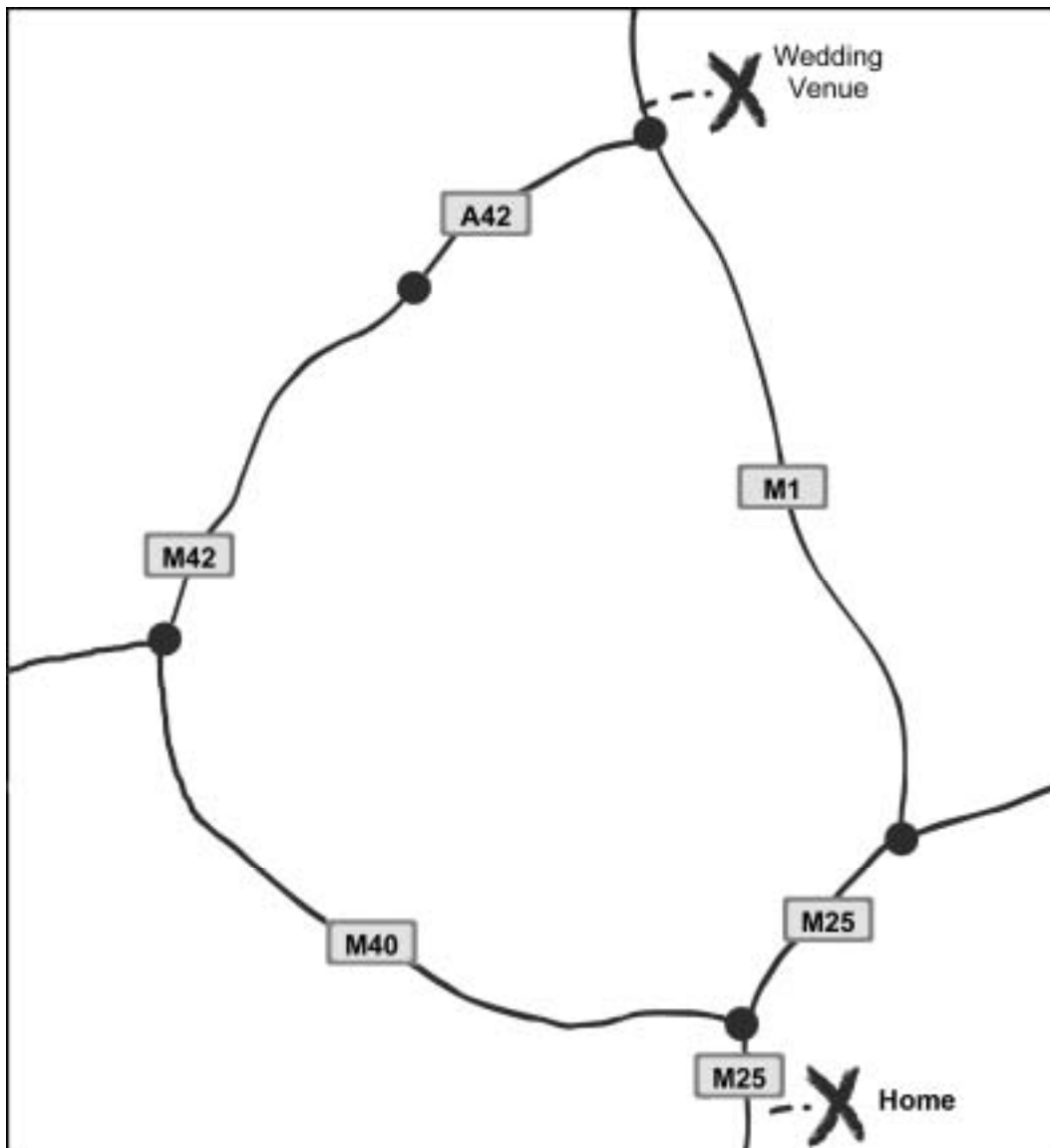
**Task 1 – Get me to the church on time****Route 1**

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

**Route 2**

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

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



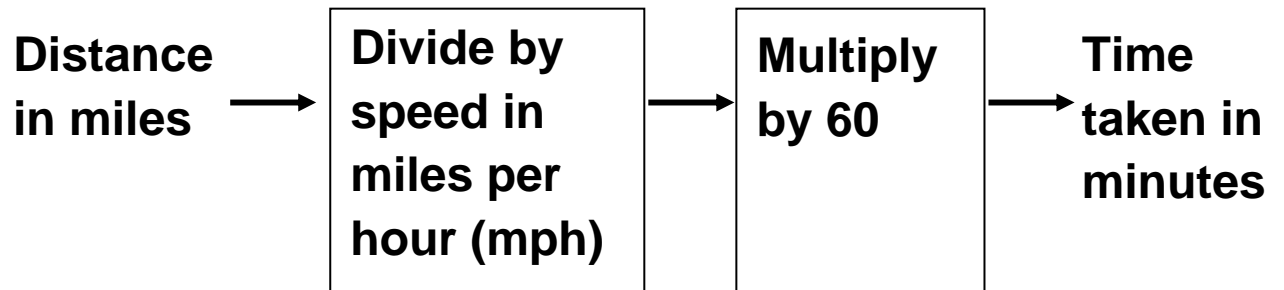
Peter knows that it takes:

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

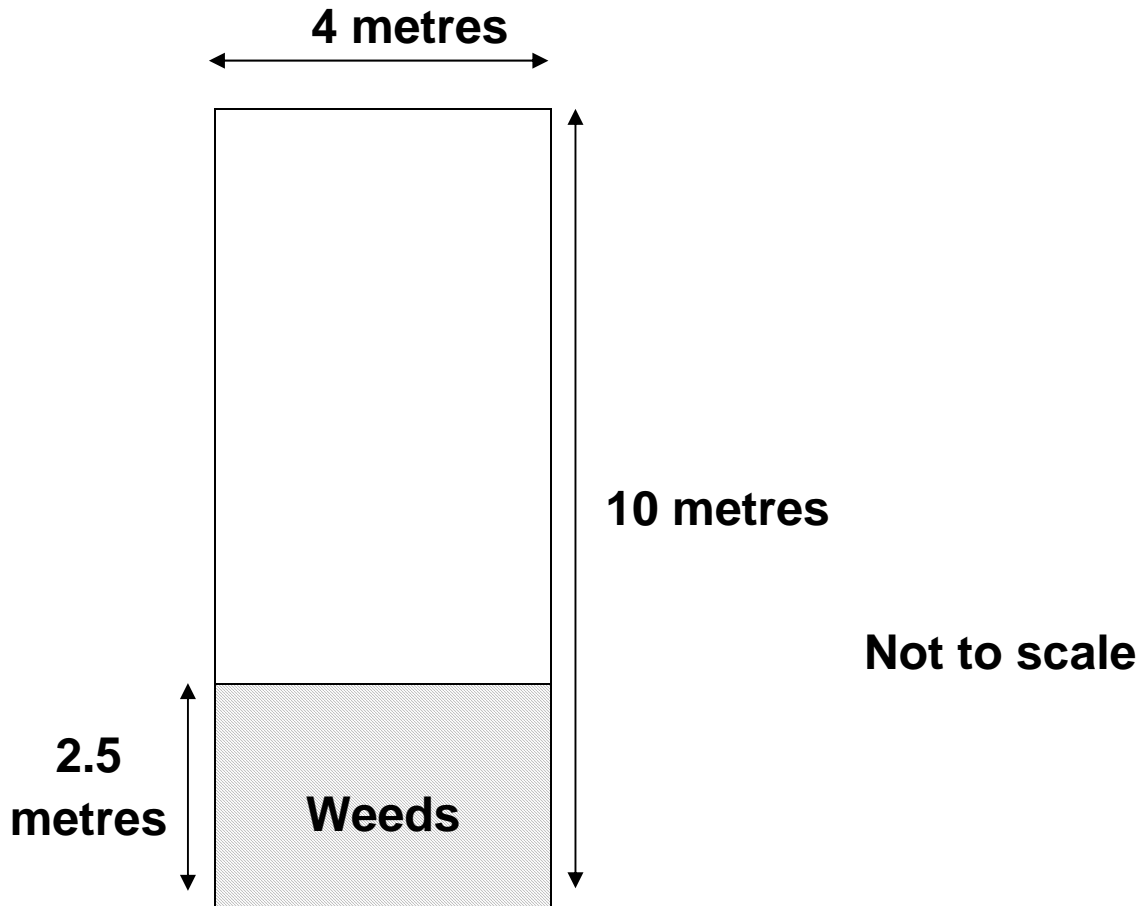
[Turn over

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.



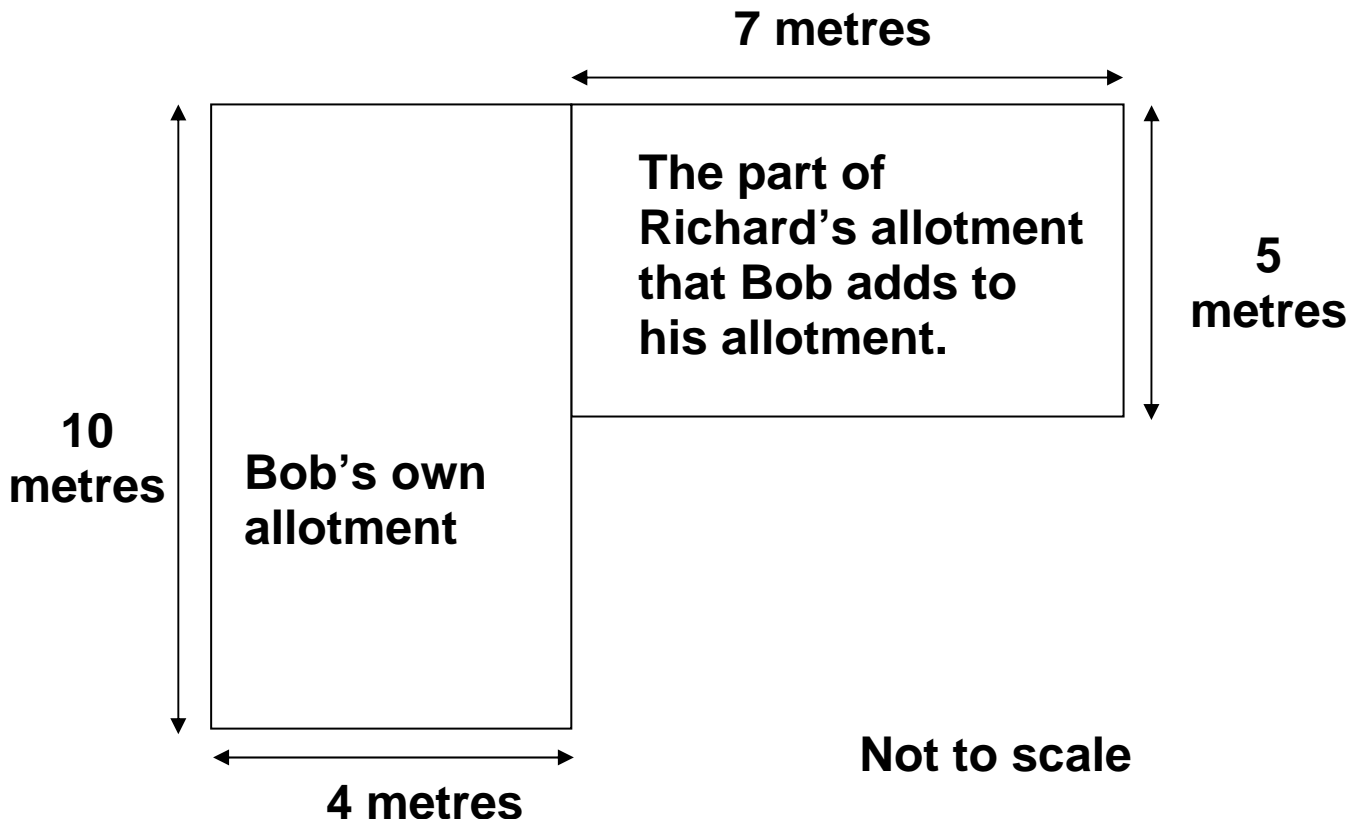
**Task 2 – Green Fingers**

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



[Turn over

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



**DIY costs for fencing**

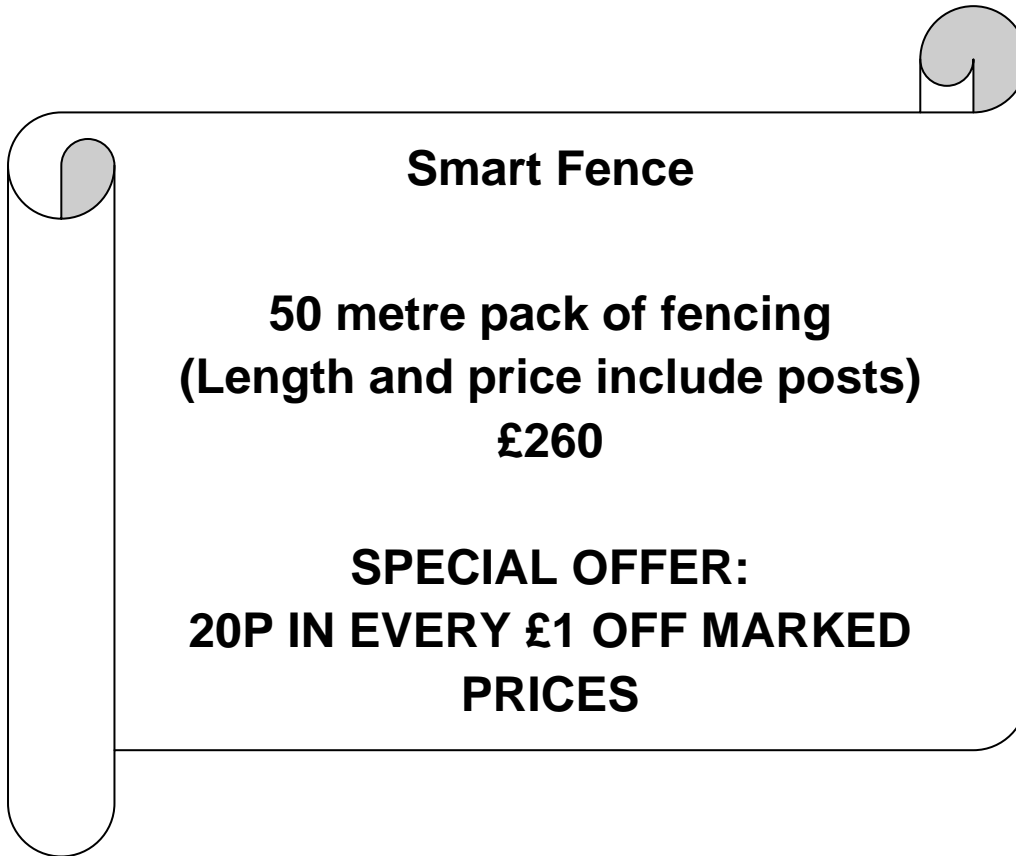
**Lander Fencing**

**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**

**[Turn over**



**Smart Fence**

**50 metre pack of fencing  
(Length and price include posts)  
£260**

**SPECIAL OFFER:  
20P IN EVERY £1 OFF MARKED  
PRICES**

**All three companies charge these prices for garden gates:**

<b>1 metre wide (including posts)</b>	<b>£35</b>
<b>2 metres wide (including posts)</b>	<b>£45</b>



### 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 <sup>st</sup> Half Marathon Time	2 <sup>nd</sup> Half Marathon Time	3 <sup>rd</sup> Half Marathon Time	4 <sup>th</sup> 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.

[Turn over

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

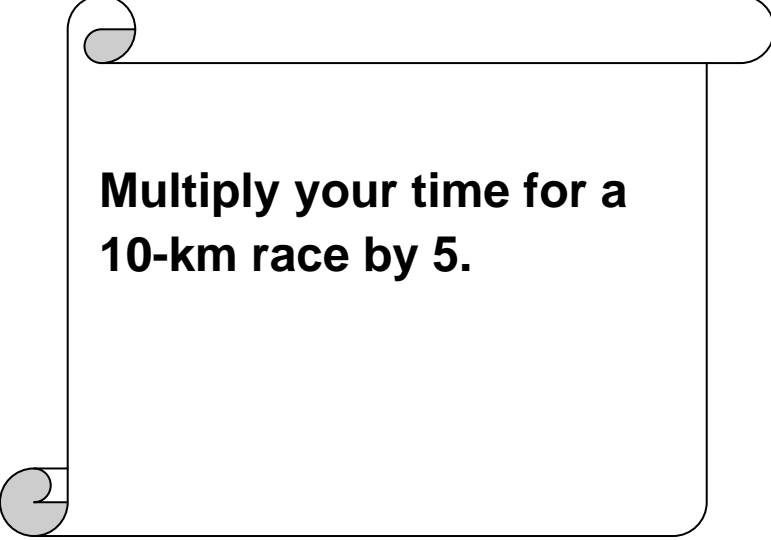
**Method 1**



**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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