First name ____________________________

Last name ____________________________

School _________________________________

Class ________________________________

Date of birth 〇〇〇〇〇〇〇〇

Date of test 〇〇〇〇 2015

Total score ___ (maximum 20)
Use the map on the next page.

Write the routes in order, *shortest distance* first.

shortest distance

Now write the routes in order, *fastest time* first.

Comparing travel times for 1km
- forest: *twice* as long as grassland
- mountains: *3 times* as long as grassland
- raft: *9 times* as long as grassland

Show measurements and calculations to explain how you decide.
2 These three dogs are different ages.

- Their ages, in years, **add up to 15**
- Their ages, in years, **multiply** together to make **60**

How old is each dog?

---

3 The diagram shows five identical blue bricks and three identical yellow bricks. A marker is on each row.

Now the markers join.

What is the length of A? Show how you work it out.
Breakfast menu:

<table>
<thead>
<tr>
<th>Breakfast Item</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eggs and toast</td>
<td>£1.00</td>
</tr>
<tr>
<td>Eggs, toast and mushrooms</td>
<td>£1.25</td>
</tr>
<tr>
<td>Eggs and sausage</td>
<td>£1.50</td>
</tr>
<tr>
<td>Eggs, sausage and tomatoes</td>
<td>£1.65</td>
</tr>
<tr>
<td>Eggs, sausage and toast</td>
<td>£1.80</td>
</tr>
</tbody>
</table>

Ethan wants sausage, mushrooms, tomatoes and toast.

Work out what it should cost.

£
Rhiannon buys a display unit for her wall.

The height is 50cm.
The length is 50cm.
The depth is 50cm.

Rhiannon is going to paint the **inside and outside** of the unit purple, but she is **not** going to paint the surface that will be attached to the wall.

She reads the instructions on her paint tin:

![Purple Paint](image)

This tin of paint covers 1.5m²

Does Rhiannon have enough paint?

Show calculations to explain how you know.
The clock shows:

After 60 minutes it will show:

After another 6000 minutes what will it show?

Show the time, day and am or pm on this clock.