First name __________________________

Last name __________________________

School ______________________________

Class ________________________________

Date of birth 00 00 00 00 00

Date of test 00 05 2014

Total score __________ (maximum 20)
The sketch shows information about David’s route on the Mega Bouncer.

Show David’s route on the plan.
Use arrows → to show the direction.
The plan below shows Jenny's route on the Mega Bouncer.

Sketch a graph to show all this information.
A company sells huge letters.

Each letter is the **same** price.

Altogether, it costs **£58.50** to make the word **YOU**.

Work out how much it costs to make the word **ME**.
What does a full jar of jam weigh?

[Hint: the answer is not 800 grams.]

The photograph shows floor tiles that are regular hexagons.

The perimeter of the blue tile is 120 cm.

What is the total length of the edges shown in red?
Sunscreen helps to protect skin from burning in the sun.

You can work out what percentage of the sun’s rays is blocked by using the number on the front:

- SPF 4

  \[ \text{Percentage blocked} = \frac{3}{4} \times 100 = 75\% \]

- SPF 14

  \[ \text{Percentage blocked} = \frac{13}{14} \times 100 = 93\% \]

- SPF 25

  \[ \text{Percentage blocked} = \frac{24}{25} \times 100 = 96\% \]

What percentage of the sun’s rays is blocked by a sunscreen with 16 on the front?

What number on the front will block 90% of the sun’s rays?
Molly wants to print lots of copies of a photograph onto this A4 sheet of paper.

She can print them **all** this way:

Or she can print them **all** this way:

Which way will give her the **greater** number of photographs?

Show calculations to explain how you know.