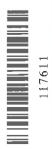
National Numeracy Tests

REASONING 8ER14

First name
Last name
School
Class
Date of birth O
Date of test 0 5 2 0 1 4
Total score (maximum 20)



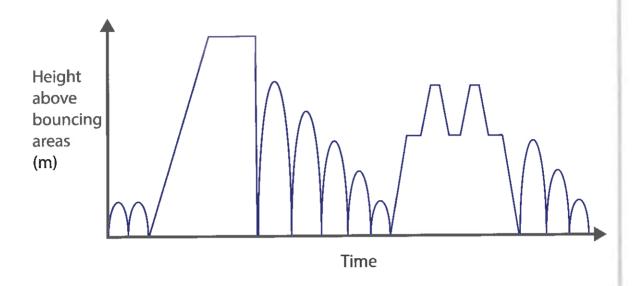




Welsh Government

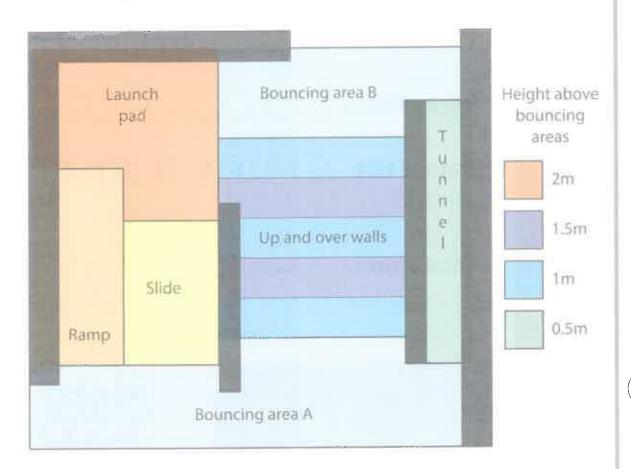
1

The sketch shows information about David's route on the Mega Bouncer.



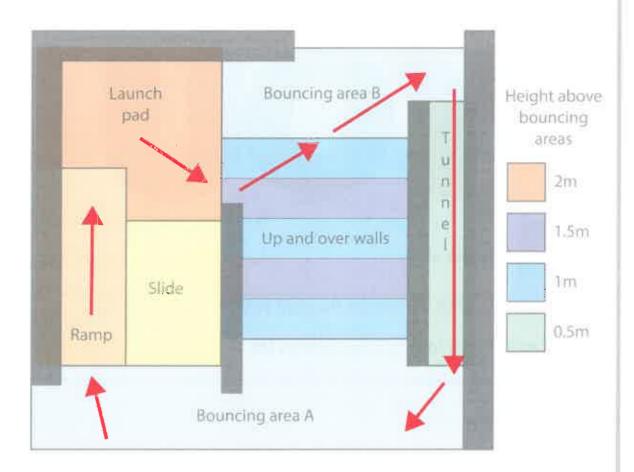
Show David's route on the plan.

Use arrows \longrightarrow to show the direction.

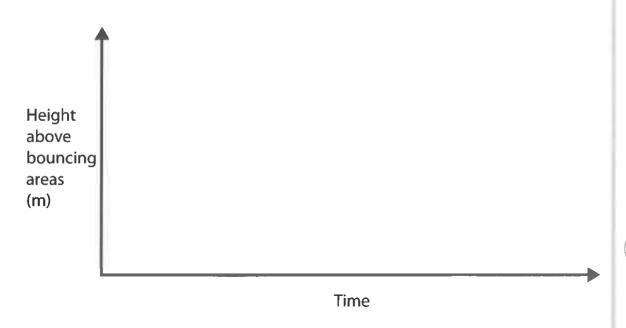




The plan below shows Jenny's route on the Mega Bouncer.



Sketch a graph to show all this information.

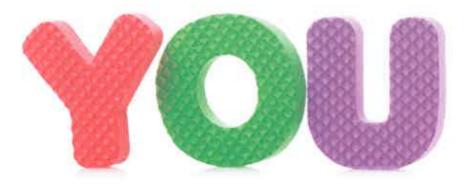








A company sells huge letters.



Each letter is the **same** price.

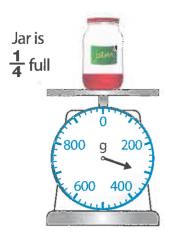
Altogether, it costs **£58.50** to make the word **YOU**.

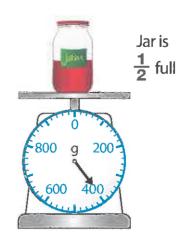
Work out how much it costs to make the word ME.

£



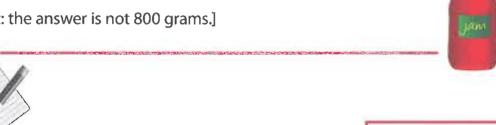






What does a **full** jar of jam weigh?

[Hint: the answer is not 800 grams.]

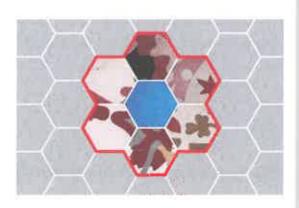




grams

The photograph shows floor tiles that are regular hexagons.

> The **perimeter** of the blue tile is 120cm.



What is the total length of the edges shown in red?







(5)

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:



Percentage blocked = $\frac{3}{4} \times 100 = 75\%$



Percentage blocked = $\frac{13}{14} \times 100 = 93\%$



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?

%

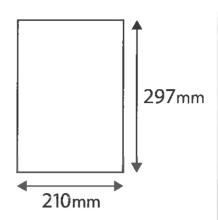


What number on the front will block 90% of the sun's rays?

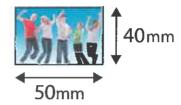




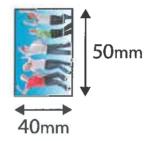
Molly wants to print lots of copies of a photograph onto this A4 sheet of paper.



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.

