DR BAKER'S YEAR 5 MATHS TUESDAY 31ST MARCH

WELCOME

"Morning. How did you get on with the time questions yesterday? I know lots of people struggle with time but it is a really important skill so if you didn't get it keep practising. Here are the answers to the problem questions:

A. Both are the same – 1kg is always 1kg no matter what you are weighing!

B. No because cm are a unit of length and kg are a unit of mass – you can't convert a length to a mass.

First up today – times table practise. Answers only in you books.

1. 6 x 5
2. 9 x 10
3. 7 x 4
4. 2 x 11
5. 9 x 3
6. 2 x 8
7. 5 x 8
8. 10 x 6
9. 4 x3
10. 11 x 7
11. 3 x 8
12. 8 x 4
13. 7 x 8
14. 6 x 4
15. 9 x 7
16. 12 x 6
17. 11 x 9
18. 7 x 0

TASKS FOR TODAY

L.O. To investigate area and perimeter.

First let's remind ourselves what area and perimeter are (you need to try and remember this if you don't know).

Area is the space **inside** a shape. In the work we are doing today we are going to work it out by counting squares but you can also use formulas for common shapes like rectangles.

Perimeter is the distance **around** the outside of a shape. Imagine you were walking all around the outside of the shape and count the distance you would walk.

Everyone should do the questions on the next two slides. The investigation on the third slide is for those of you looking to push yourselves.
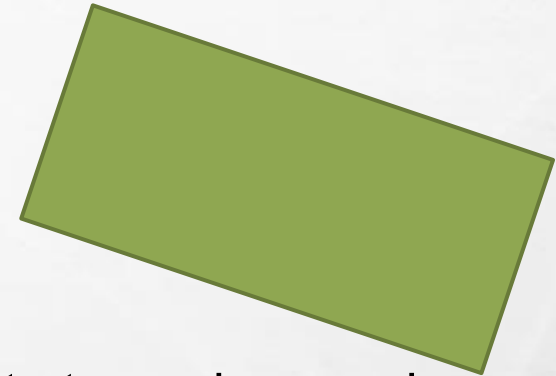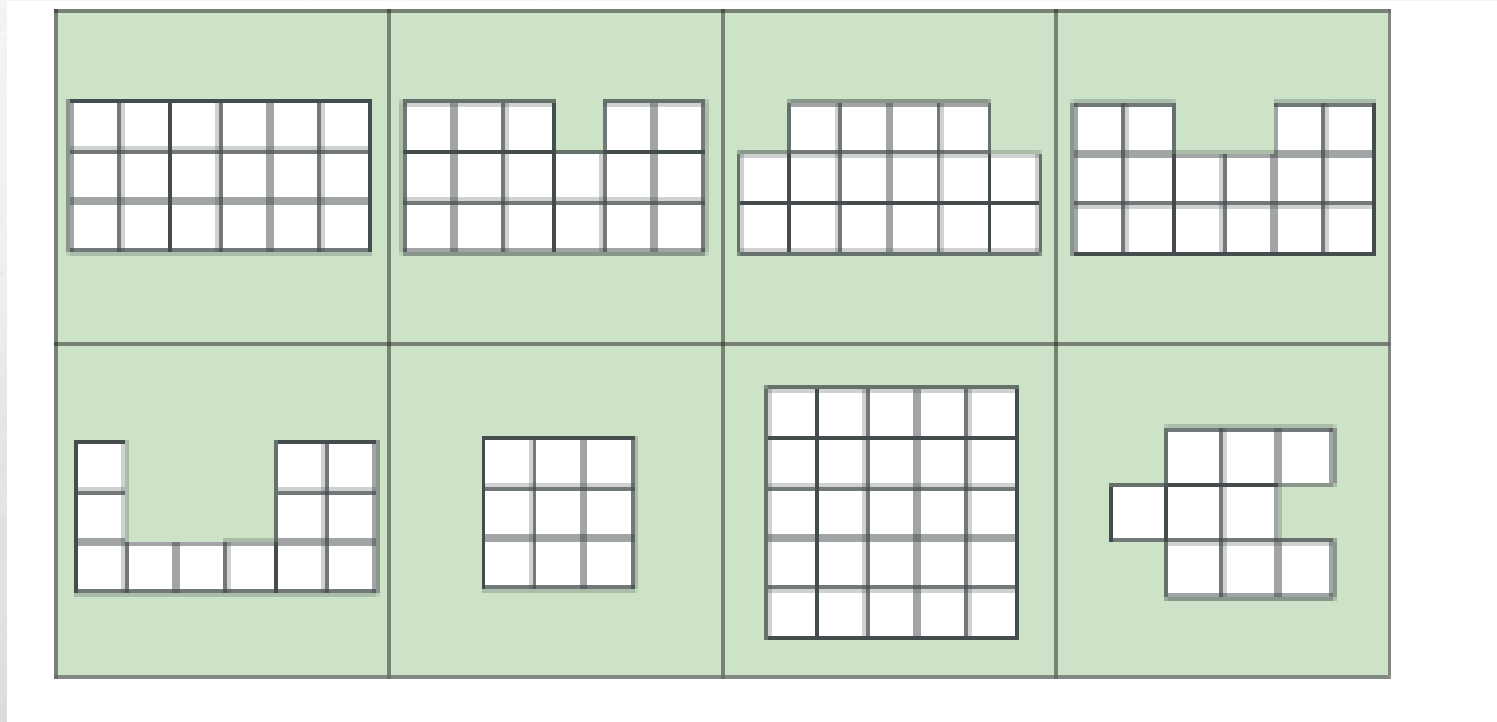
TASKS FOR TODAY

What can you say about these two shapes? What is the area of each one? What is the perimeter of each one?
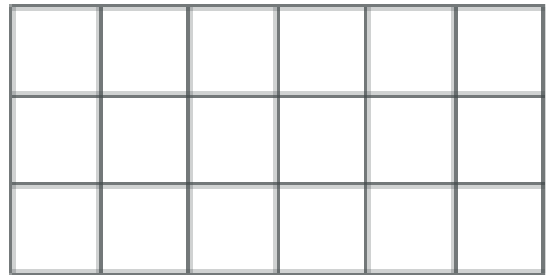
Find the area and perimeter of each of these shapes.

INVESTIGATE THE FOLLOWING:

Can you draw a shape in which the area is numerically equal to its perimeter? And another?
Can you draw a shape in which the perimeter is numerically twice the area?
Can you draw a shape in which the area is numerically twice the perimeter?
Can you make the area of your shape go up but the perimeter go down?
Can you make the perimeter of your shape go up but the area go down?

Can you draw some shapes that have the same area but different perimeters?
Can you draw some shapes that have the same perimeter but different areas?

Let me know what you find out.

ANSWERS

Slide 1. The area of the first shape is 18 squares and the perimeter is 18 too. The area of the second is 12 squares and the perimeter is 22.

A = 18, P = 18   A = 17, P = 20   A = 16, P = 18   A = 16, P = 20

A = 12, P = 22   A = 9, P = 12   A = 25, P = 20   A = 9, P = 16