Formulae Rules

skills workshop

1. Replace letters with numbers

Replace the letters in the formula with the numbers given in the question.

2. Remember

that 3d means 3 times d
and 4 (ab) means 4 times (a times b)

3. Do the maths! But remember to use

B ( ) Work out the contents of any brackets first

I Index numbers — Index numbers next
Remember that r^2 means r times r, **NOT** r times 2

D ÷ Divide and multiply, working through the formula from left to right

M x

A + Add and subtract, working through the formula from left to right

S –

Remember!

You never have to memorise any formulae.

You will be given the formula in the question.

Formulae Rules

Circles
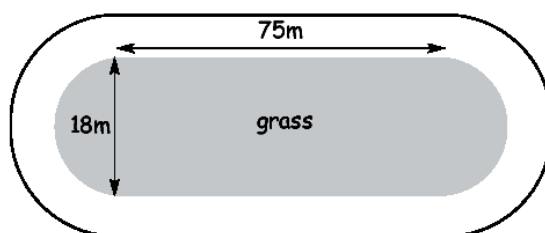
$$\text{Area} = \pi r^2$$

Find the radius of the circle – the distance from the centre of the circle to the edge.

The question will give you an approximate value for π, usually 3 (but not always)

So, πr^2 = 3 times the radius times the radius

Examples of circles used in questions:

- The two semi-circles at either end of a running track – put together, they make a complete circle

- A pond with a path around it
- A circular mirror with a frame

Make sure you find the <u>total</u> radius – for a circle with a border, the measurements might be in two different places.