Corbettmaths
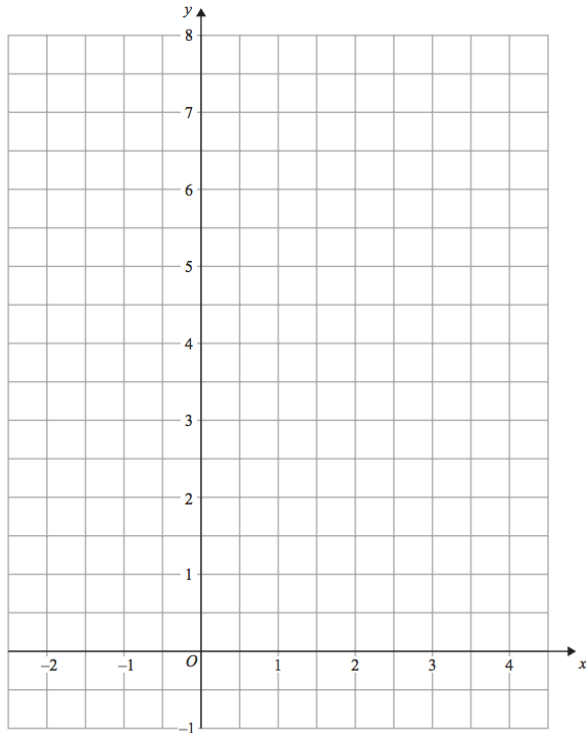
There are 3 red and 17 green counters in a bag.

Salma takes out a counter, replaces it and takes out another.

What is the probability of two reds?
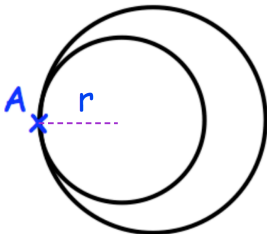

On the grid, clearly label the region which satisfies all three inequalities below

$$x > 0$$

$$y \geq \frac{1}{2}x$$

$$x + 2y < 4$$

A is a point on two circles.
The smaller circle is inside the larger circle.

The difference between the area of the smaller circle and the larger circle is 20cm²

The radius of the smaller circle is r cm
The radius of the larger circle is 2cm greater than the radius of the smaller circle.
Show that the radius of the smaller circle is $\dfrac{5}{\pi} - 1$ cm