

28th July

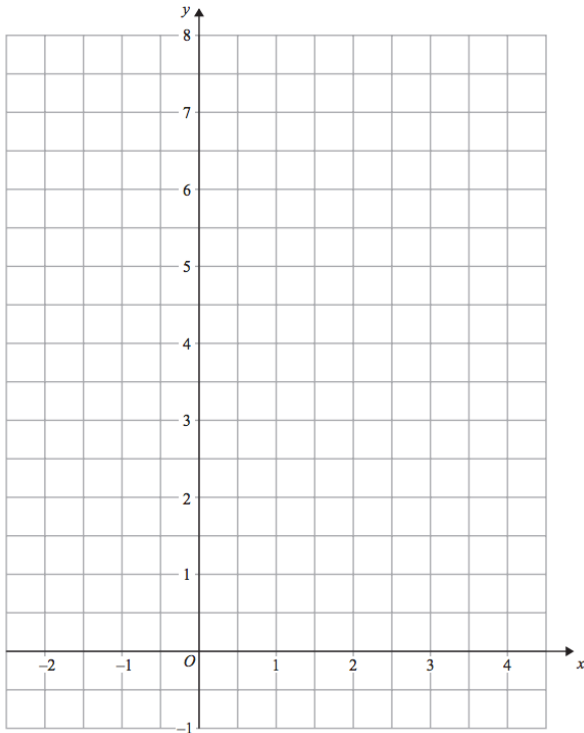


Corbettmaths

There are 5 red and 5 green counters in a bag.

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

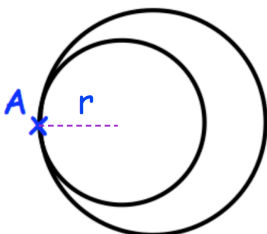
What is the probability of two reds?



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

$$x > 0 \qquad y \geq \frac{1}{2}x \qquad x + 2y < 4$$

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 20cm^2

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 $\frac{5}{\pi} - 1$ cm