

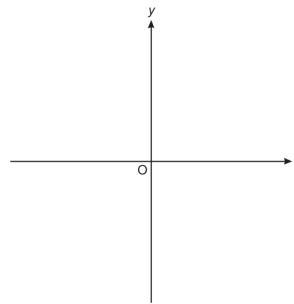
9th October



Corbettmaths

Sketch

$$y = 2^x$$



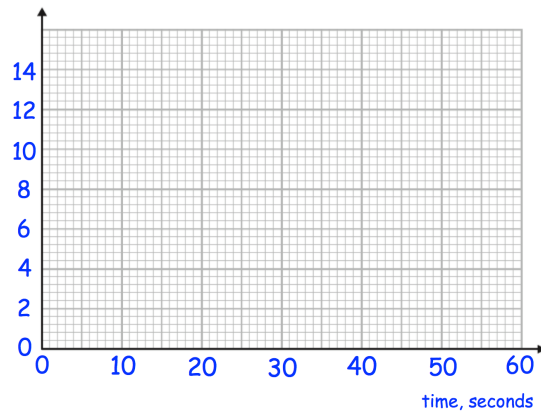
A remote control car drives in a straight line.

It starts from rest and travels with constant acceleration for 20 seconds reaching a velocity of 12m/s.

It then travels at a constant speed for 10 seconds.

It then slows down with constant deceleration of 1.5m/s^2 .

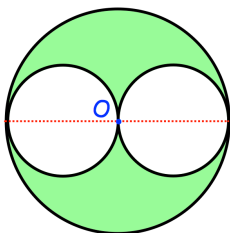
Velocity, m/s



Draw a velocity-time graph and work out the total distance travelled.

The line AB has equation $4x + 3y = 9$

Find an equation of the line perpendicular to the line AB that passes through the point $(-3, -1)$



Two identical small circles are drawn inside a large circle.

What percentage of the large circle is shaded?