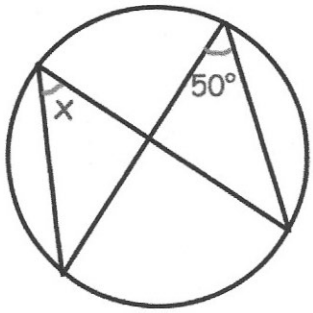
27th January **Higher 5-a-day**

Corbettmaths

Estimate $\sqrt[4]{100}$

approx 3.1 to 3.3



Find x

50°

The cost of a circular table is directly proportional to the square of the radius.
A circular table with a radius of 40cm cost £50.

What is the cost of a circular table with a radius of 60cm?

$C \propto r^2$

$C = kr^2$

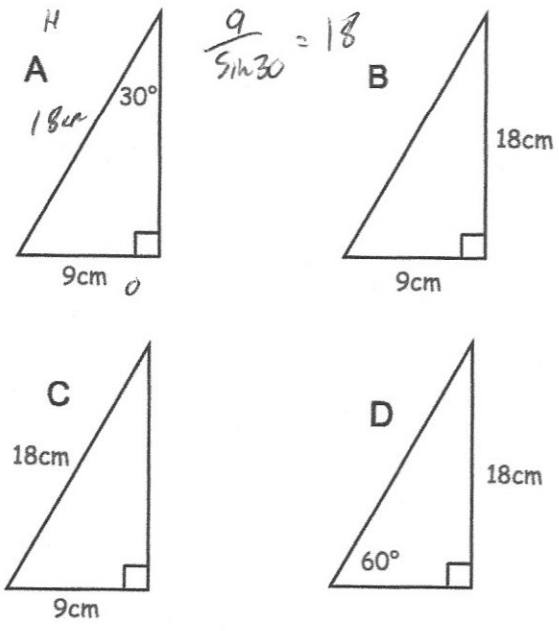
$50 = k \times 40^2$

$k = \frac{1}{32}$

$C = \frac{1}{32} r^2$

$C = \frac{1}{32} \times 60^2$

£112.50



$\frac{9}{\sin 30} = 18$

Identify the two congruent triangles and explain your answer.

A & C

as both triangles have two sides (hypotenuse + other) equal and are right angled, they must be congruent

RHS