23rd June **Foundation Plus 5-a-day**

Corbettmaths

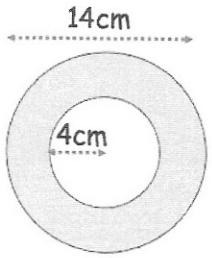
The size of an interior angle, for a regular polygon, is 176°

How many sides does it have?

exterior angle = 4°

$360 \div 4 = 90$

90 sides



Find the shaded area.

$(\pi \times 7^2) - (\pi \times 4^2)$

$= 33\pi \text{ cm}^2$

103.67 cm^2

The sizes of the interior angles of a pentagon are in the ratio 1:2:5:5:7

540°

Calculate the size of the largest

$1+2+5+5+7 = 20$

$540 \div 20 = 27$

$27 \times 7 = 189$

$189°$

The time, T days, to build a house, is inversely proportional to the number of builders, n, building the house.

$$T = \frac{90}{n}$$

How long does it take to build a house with 3 builders?

$\frac{90}{3} = 30$ days

A house takes 15 days to build.
How many builders work on the house?

$15 = \frac{90}{n}$

$15n = 90$

$n = 6$

6 builders