Name: _____ 5-a-day Higher

1st February

Corbettmaths

What is the size of each exterior angle of a regular pentagon?

$540 \div 5 = 108°$

$180 - 108 = 72°$

or $(360 \div 5)$

What is the size of each interior angle of a regular heptagon?

$(7-2) \times 180 = 900°$

$900° \div 7 = 128.57°$

Simplify

$5w^{-2}y^6 \times 2w^5y$

$10w^3y^7$

$$w = \frac{20(a+c)}{c}$$

Make a the subject.

$cw = 20(a+c)$

$cw = 20a + 20c$

$cw - 20c = 20a$

$\frac{cw - 20c}{20} = a$ or $a = \frac{cw}{20} - c$

Two bottles are similar.

Bottle A is 15cm tall.
Bottle B is 20cm tall. $\times 1.\dot{3}$

The volume of Bottle A is 400cm³

Work out the volume of Bottle B

$400 \times 1.\dot{3}^3 =$

$948.15 cm^3$

Calculate the surface area of a sphere of radius 10cm.

$SA = 4\pi r^2$

$= 4 \times \pi \times 10^2$

$1256.64 cm^2$