Name: _____ 5-a-day Higher

11th June

Corbettmaths

Write down the equation of the line that passes through (2, 6) and (6, 9)

$m = \frac{\text{rise}}{\text{run}} = \frac{3}{4}$

$y = \frac{3}{4}x + c$

$6 = 1.5 + c$

$c = 4.5$

$y = \frac{3}{4}x + 4\frac{1}{2}$

$y = 0.75x + 4.5$

What is the size of each exterior angle of a regular 12-sided polygon?

$360 \div 12 = 30°$

A particle travels at 8.1×10^3 m/s to the nearest 10 m/s. 8100 m/s

UB 8105 LB 8095

The particle travels for 20 seconds, to the nearest second.

Work out the smallest possible distance travelled.

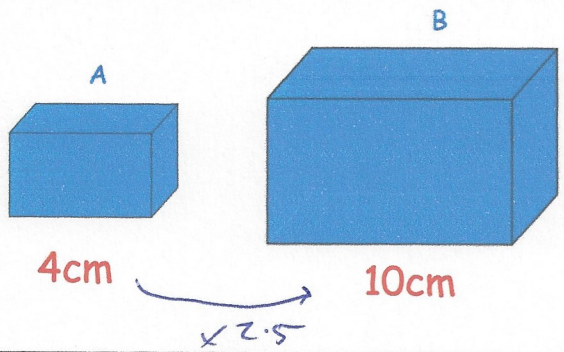
$d = s \times t$

$\text{min } d = \text{min } s \times \text{min } t$

$d = 8095 \times 19.5$

$= 157852.5 \text{ m}$

or 157.8525 km



Cuboids A and B are similar.
The volume of cuboid B is 500cm^3.
Work out the volume of cuboid A.

$500 \div 2.5^3 = 32 \text{ cm}^3$

Write down the value of Cos 90°

0