

9th June



Corbettmaths

Find the least and greatest total length of 6 sausages, each measuring 8cm to the nearest centimetre.

$$LB = 7.5 \text{ cm}$$

$$UB = 8.5 \text{ cm}$$

$$7.5 \times 6 = 45$$

$$8.5 \times 6 = 51$$

Least length ..... 45 ..... cm

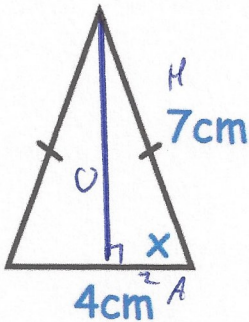
Greatest length ..... 51 ..... cm

Write as a single power of 5.

$$\frac{5^3 \times 5^{11}}{5^2}$$

$$\frac{5^{14}}{5^2}$$

$$5^{12}$$



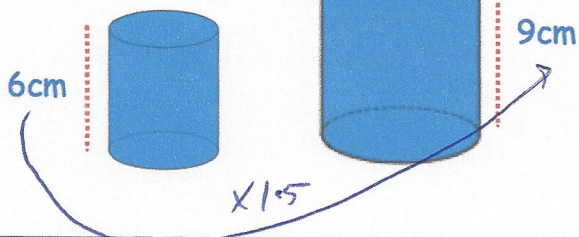
Find  $x$

$$\cos x = \frac{2}{7}$$

$$x = \cos^{-1}\left(\frac{2}{7}\right)$$

$$x = 73.398^\circ$$

$$\text{Volume} = 100 \text{ cm}^3$$



Find the volume of the larger cylinder.

$$100 \times 1.5^3$$

$$= 337.5 \text{ cm}^3$$

Expand and simplify

$$(x - 5)(x - 4)^2$$

$$(x - 5)(x - 4)(x - 4)$$

$$(x^2 - 9x + 20)(x - 4)$$

$$x^3 - 4x^2 - 9x^2 + 36x + 20x - 80$$

$$x^3 - 13x^2 + 56x - 80$$