

# Maths – 8 Support: Spring 1

## 1 Number – Percentages

$$50\% \text{ of } 60 = 30$$

$$25\% \text{ of } 60 = 15$$

$$10\% \text{ of } 60 = 6$$

On a calculator:  
'of' means multiply

Increase £60 by 50%

$$100\% + 50\%$$

$$60 + 30 = \text{£}90$$

Decrease £60 by 50%

$$100\% - 50\%$$

$$60 - 30 = \text{£}30$$

## 2 Shape – Perimeter and Area

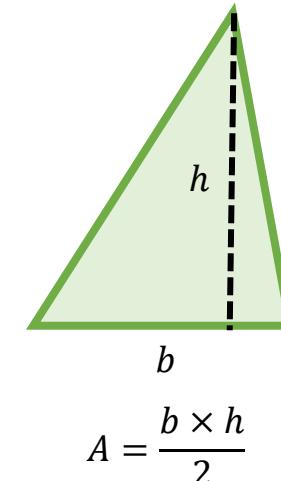
3cm

$$A = 5 \times 3 \\ = 15 \text{ cm}^2$$

5cm

Perimeter: distance around edge

$$3 + 5 + 3 + 5 = 16 \text{ cm}$$

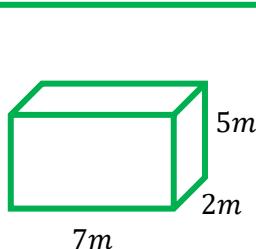


## 3 Shape – Volume

Cuboid

$$V = \text{length} \times \text{width} \times \text{height}$$

$$\begin{aligned} V &= l \times w \times h \\ &= 7 \times 2 \times 5 \\ &= 70 \text{ m}^3 \end{aligned}$$



## 4 Shape – Surface Area

Cube

*Surface area:*  
*sum of the area of the faces*

