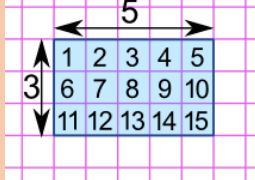
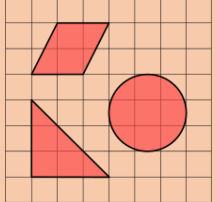
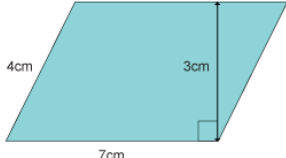
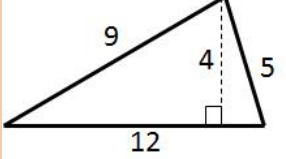
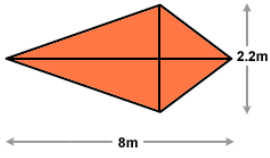
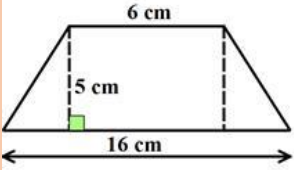
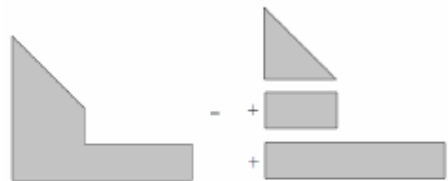
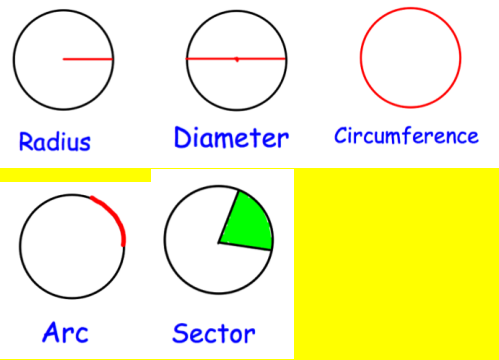
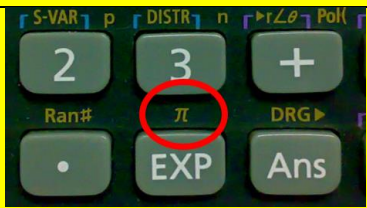
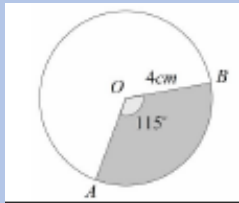
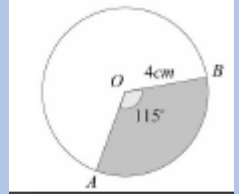


Topic: Measures

Topic/Skill	Definition/Tips	Example
Read from scales	Read from scales to a suitable degree of accuracy	
Perimeter and Area by counting	Count the squares to find area and perimeter of a rectilinear shape.	
Perimeter	The total distance around the outside of a shape. Units include: <i>mm, cm, m</i> etc.	 $P = 8 + 5 + 8 + 5 = 26\text{cm}$
Area	The amount of space inside a shape. Units include: <i>mm², cm², m²</i>	
Area of a Rectangle	Length x Width	 $A = 36\text{cm}^2$
Area of a Parallelogram	Base x Perpendicular Height (Not the slant height).	 $A = 21\text{cm}^2$
Area of a Triangle	$\frac{1}{2} \times \text{Base} \times \text{Height}$	 $A = 24\text{cm}^2$
Area of a Kite	Split in to two triangles and use the method above.	 $A = 8.8\text{m}^2$
Area of a Trapezium	$\frac{(a + b)}{2} \times h$	 $A = 55\text{cm}^2$

Compound Shape	A shape made up of a combination of other known shapes put together.	
Parts of a Circle	Radius – the distance from the centre of a circle to the edge Diameter – the total distance across the width of a circle through the centre. Circumference – the total distance around the outside of a circle Arc – a part of the circumference of a circle Sector – the region of a circle enclosed by two radii and their intercepted arc	Parts of a Circle 
Area of a Circle	$A = \pi r^2$ which means 'pi x radius squared'.	If the radius was 5cm, then: $A = \pi \times 5^2 = 78.5\text{cm}^2$
Circumference of a Circle	$C = \pi d$ which means 'pi x diameter'	If the radius was 5cm, then: $C = \pi \times 10 = 31.4\text{cm}$
π ('pi')	Pi is the circumference of a circle divided by the diameter. $\pi \approx 3.14$	
Metric System	A system of measures based on: - the metre for length - the kilogram for mass - the second for time Length: mm, cm, m, km Mass: mg, g, kg Volume: ml, cl, l	1kilometres = 1000 metres 1 metre = 100 centimetres 1 centimetre = 10 millimetres 1 kilogram = 1000 grams 1 litre = 1000ml
Arc Length of a Sector	The arc length is part of the circumference. Take the angle given as a fraction over 360° and multiply by the circumference.	Arc Length = $\frac{115}{360} \times \pi \times 8 = 8.03\text{cm}$ 
Area of a Sector	The area of a sector is part of the total area. Take the angle given as a fraction over 360° and multiply by the area.	Area = $\frac{115}{360} \times \pi \times 4^2 = 16.1\text{cm}^2$ 

Where else is the measures topic used:

Algebra Angles

Ratio and Proportion

Links to other subjects: