

Maths		Number & Geometry	Year 8	Term 5
Week 4: Angles 2	– Parallel lines	Week 5: Trapezia	Week 6: Circles	
parallel	Lines that remain a constant distance apart – they never meet. Arrows show that lines are parallel.	trapeziaTrapezia is the plural (more than one) of the word trapezium.All trapezia have:four edges one pair of parallel sides	is the radius	The diameter is double the radius. 须뎞
transversal	A straight line that intersects (crosses) a set of parallel lines.	Examples: Trapeziums Not trapeziums	diameter	$\overrightarrow{3,14}$ $Pi = \pi \approx 3.14$ π is a constant that links circumference
Example: AC and FD are parallel GH is the transversal	$A \xrightarrow{G} B \xrightarrow{C} D$		$(\bigcirc) circumference$ $(\leftrightarrow) area = \pi \times ra$	and diameter. $e = \pi imes diameter$ $dius^2$
corresponding angles angles alternate angles	Angles that are in the same position in the other set of angles. Angles that are in between the parallel lines but on opposite sides of the transversal.	Area of a trapezium: $Area = \frac{1}{2}(a+b)h$		
$ \begin{array}{c} \begin{array}{c} \$ & 1 \times 9 = 9 & 4 \\ \$ & 2 \times 9 = 18 & 5 \\ \$ & 3 \times 9 = 27 & 6 \\ \bullet & 3 \times 9 = 27 & 6 \\ \end{array} $	$\begin{array}{c} 9 = 36 & 7 \times 9 = 63 & 10 \times 9 = 90 \\ 9 = 45 & 8 \times 9 = 72 & 11 \times 9 = 99 \\ 9 = 54 & 9 \times 9 = 81 & 12 \times 9 = 108 \end{array}$	$\begin{bmatrix} 3 \\ -3 \\ -4 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5$	$\begin{bmatrix} \frac{1}{2} & 1 \times 12 = 12 & 4 \times 12 = 48 \\ \frac{1}{2} & 2 \times 12 = 24 & 5 \times 12 = 60 \\ \frac{1}{2} & 3 \times 12 = 36 & 6 \times 12 = 72 \\ \frac{1}{2} & \frac{1}{2} $	7 x 12 = 84 10 x 12 = 120 8 x 12 = 96 11 x 12 = 132 9 x 12 = 108 12 x 12 = 144
Extension work – Codes for related Independent Learning tasks on Sparx Maths Click on 'Independent Learning' on home page then enter code in search box				
Sparx Maths M3	06 Angles on parallel lines19 Combining angle facts	Sparx MathsM705Area of a trapeziumM303Mixed area problems: rectangles, triangles, parallelograms, trapezia	Sparx Maths M169 M231	Parts of a circle Circumference Area of circles