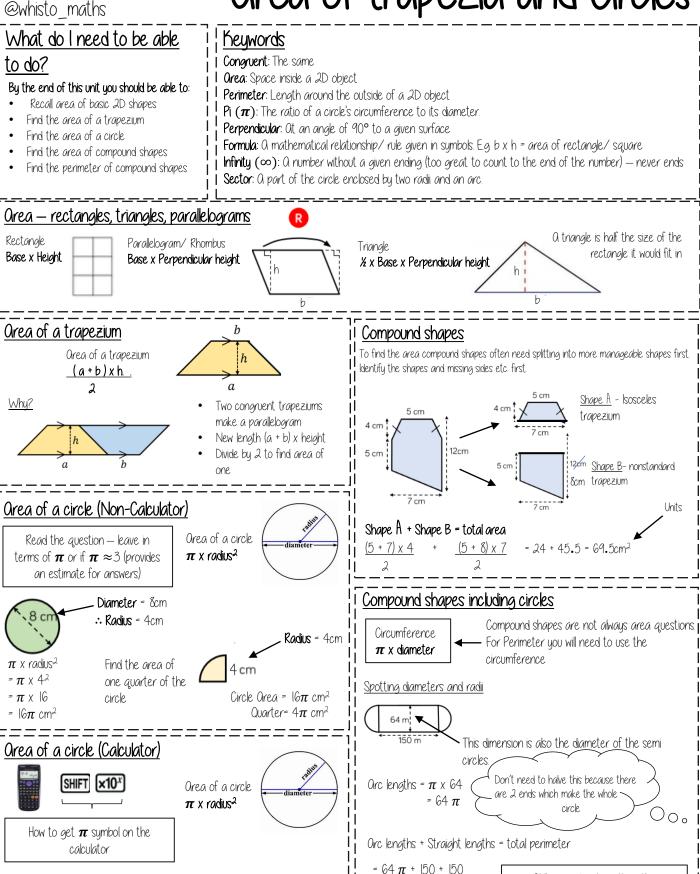
YEAR 8 - DEVELOPING GEOMETRY... @whisto_maths Orea of trapezia and Circles

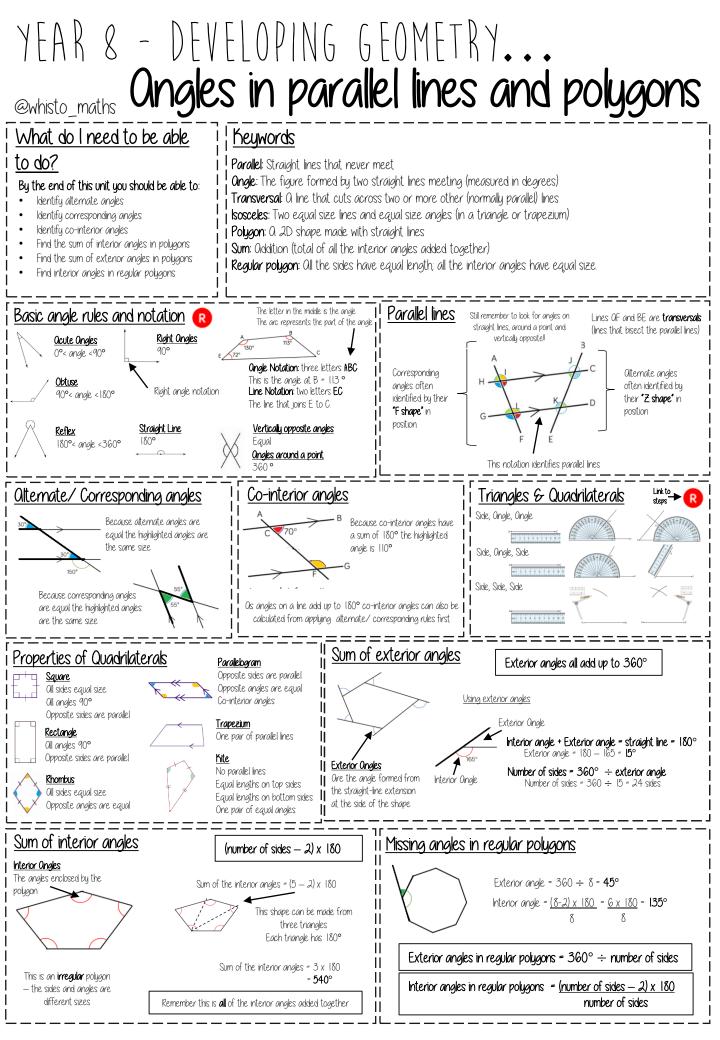


= (300 + 64 π) m

0R = 501.1 m

It is important to round your answer suitably — to significant figures or decimal places. This will give you a decimal solution that will go on forever!

Still remember to split up the compound shape into smaller more manageable individual shapes first



YEAR 8 — DEVELOPING NUMBER...

		N	lumber	r Sense	
What do I need to be able to do? By the end of this unit you should be able to: Round numbers to powers of 10 and 1 sf Round numbers to any dp Estimate solutions Calculate using order of operations Calculate with money, units of measurement and time	e to: Round: Making a number simpler but keeping its value close to what it was.				
Round to powers of 10 and 1 sig. fig. 5495 to the nearest 1000 5475	2 R If the number is halfway between we "round up" 37 to I significant figure is 400 37 to I significant figure is 40 3.7 to I significant figure is 4 0.37 to I significant figure is 4		nt figure is 40 nt figure is 4		
5000 1 6000 5400	1 5500	5470 1 (5480)	0.00037 to 1 sig	gnificant figure is 0.0004	
24 1 25	Focus on the numbers after the decimal point 2.4 6 192 This shows the number is closer to 25 2.46 192 This shows the number is closer to 246	21.4 x 3.1 ≈ 20 x 3 ≈ 60 It is good to check all calculations v	Round to I significant figure to estimate This is an overestimate because the 6.7 was rounded up more ign changes to show it is an estimation This is an underestimate because both values were rounded down with an estimate in all aspects of maths — it ntify calculation errors.		
Order of operations Brackets Operations in brackets are calculated first Other operations e.g. powers, roots, Multiplication/Division They are carried out in the order from left to right in the question Oddition/Subtraction They are carried out in the order from left to right in the question	Using a calculator - correct units. £ 1.30 + 50p = 1.30	more in an account Money cal than £0 in an account - ensure you are working in the	wlations are to 2dp = 100p		
Units are important: Useful Conversions	÷ 10 mm × 1	$ \begin{array}{c} $	9 + 1000 8 + 1000 × 1000	$\begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\$	
Metric measures of length $Hib = 1000 \times meter$ Centi - $\frac{1}{100} \times meter$ $Hill - \frac{1}{1000} \times meter$	Time and the caler <u>IYear</u> - the amou takes Earth to go a sun 365 (and a gu <u>Leap Year</u> - 366	31 days – Jan, March Oug Oct, Dec around the 28 days – Feb (29 k iarter) days Iweek 7 days Iweek 7 days	h, May, July e, Sept, Nov (dnesday,	I day - 24 hours I hour - 60 minutes I minute - 60 seconds Jse a number line for time calculations!	
Units of weight/ capacity Weight = g, kg, t Capacity (volume of liquid) = ml, L	Onalogue Clock	4 years) Thursday, Friday, Satu <u>L2-hour clock</u> Use am (morning) and pm (afterno	Digital Clock (24-hour	times) 24-hour clock • 0-11 (morning hours) • 12-23 (afternoon hours)	