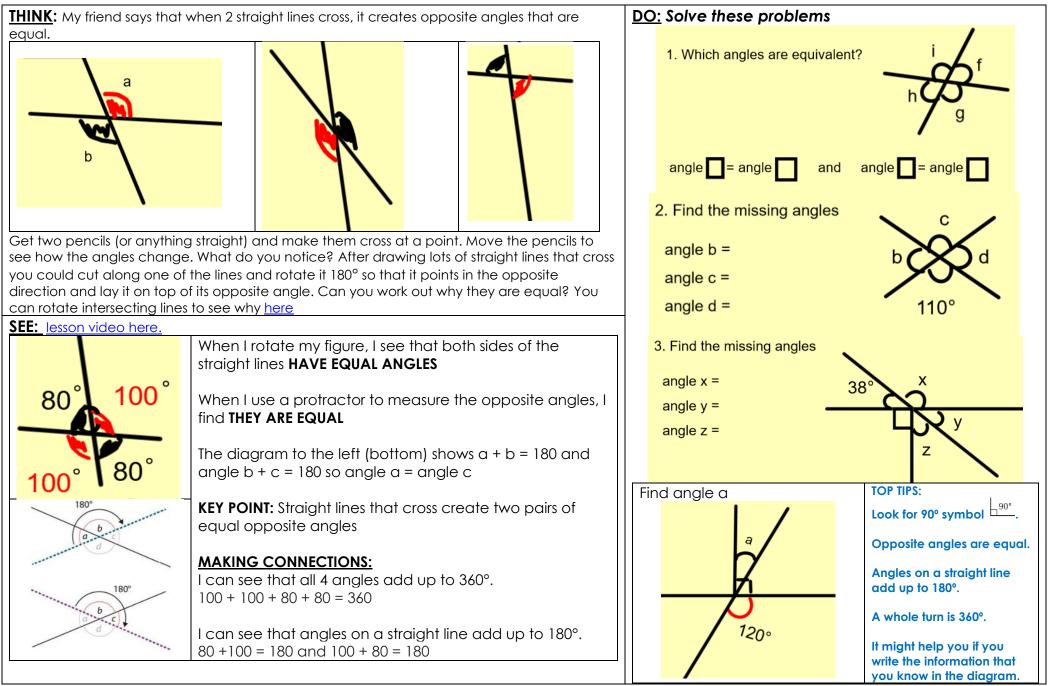
Year 6 maths – Week Beginning 04.05.20							
Theme	Geometry lesson 1 Investigating opposite angles	Geometry lesson 2 Investigating angles in triangles	Geometry lesson 3 Investigating angles in quadrilaterals	Geometry lesson 4 Solving problems involving angles in triangles and quadrilaterals	Geometry lesson 5 Investigating circles		
Factual fluency (to aid fluency)	Measure angles using a protractor <u>here</u>	Find missing angles <u>here</u>	Find missing angles (2) <u>here</u>	Find missing angles (3) <u>here</u>	Find missing angles (4) <u>here</u>		
Problem/ activity of the day	(Lesson 1 resources below) <u>MAKING LINKS:</u> In year 5, we investigated angles on a line see here and at a point <u>see</u> here <u>THINK: (support below)</u> My friend says that when 2 straight lines cross, it creates opposite angles that are equal. Do you agree/disagree? Can you prove it? <u>SEE: (model below)</u> Watch lesson video here. <u>DO:</u> Use what you have learned today to solve the problems.	(Lesson 2 resources below) <u>MAKING LINKS:</u> In year 4 and 5, we learnt the properties of different types of triangles. Use this link as a reminder. <u>IHINK: (support below)</u> My friend says the angles in a triangle always add up to 180°. Do you agree/disagree? Can you prove it? <u>SEE: (model below)</u> Watch lesson video here. <u>DO:</u> Use your knowledge of isosceles triangles and what you have learned today to solve the problems.	(Lesson 3 resources below) <u>MAKING LINKS:</u> In year 4 and 5, we learnt the properties of quadrilaterals. Use this link as a reminder. <u>THINK: (support below)</u> My friend says the angles in a quadrilateral always add up to 360°. <u>Recargle</u> <u>Recargle</u> <u>All angles 90'</u> All angles 90' opposite add <u>All angles 90'</u> <u>All angles</u>	(Lesson 4 resources below) <u>MAKING LINKS:</u> On Tuesday and Wednesday, we solved problems involving angles in triangles and quadrilaterals. <u>THINK: (support below)</u> My friend thinks she can work out the size of angles in regular pentagons and hexagons without a protractor Do you agree/disagree? Can you do it? Tip: Pentagons and hexagons are made up of triangles and quadrilaterals. <u>SEE: (model below)</u> Watch lesson video here. <u>DO:</u> Use what you have learned today to solve the problems. Remember: the sum of the angles in a triangle is 180°. Remember: the sum of the angles in a quadrilateral is 360°.	(Lesson 5 resources below) <u>MAKING LINKS:</u> In year 4 and 5, we learnt the properties of shapes. <u>IHINK: (support below)</u> A circle has a diameter, a radius and a circumference. See below or <u>click here</u> for more. What is the relationship between the diameter and the radius? What kind of triangle is created in the circle above? How do you know? <u>SEE: (model below)</u> Watch lesson video here. <u>DO:</u> Use what you have learned today to solve the problems.		
Time to check	Day 1 resources and answers (below)	Day 2 resources and answers (below)	Day 3 resources and answers (below)	Day 4 resources and answers (below)	Day 5 resources and answers (below)		



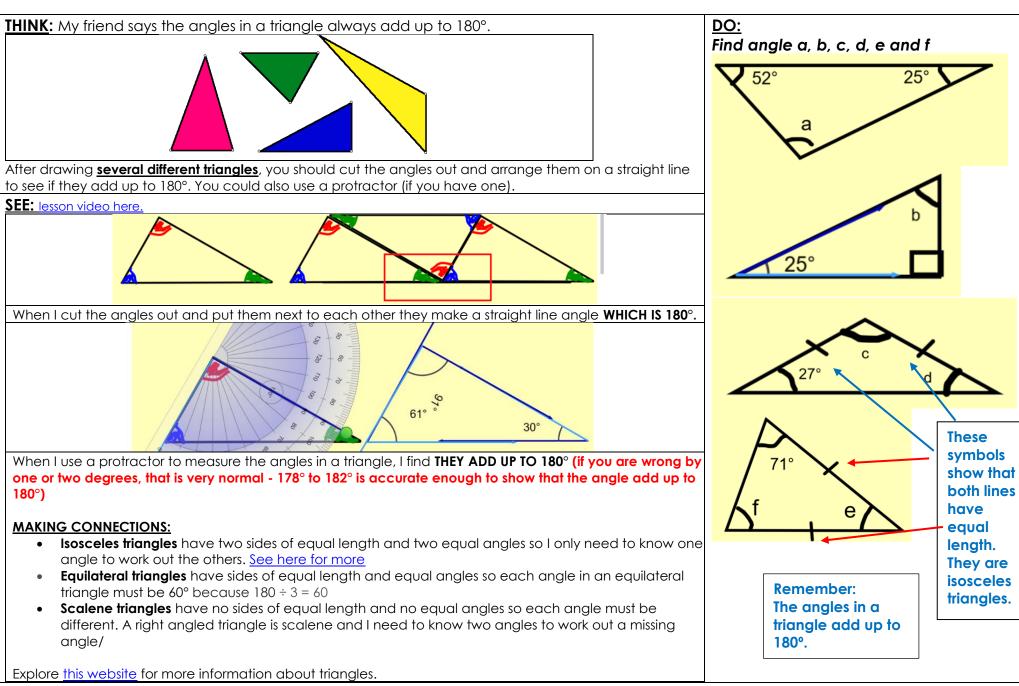
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DAY 1 RESOURCES:



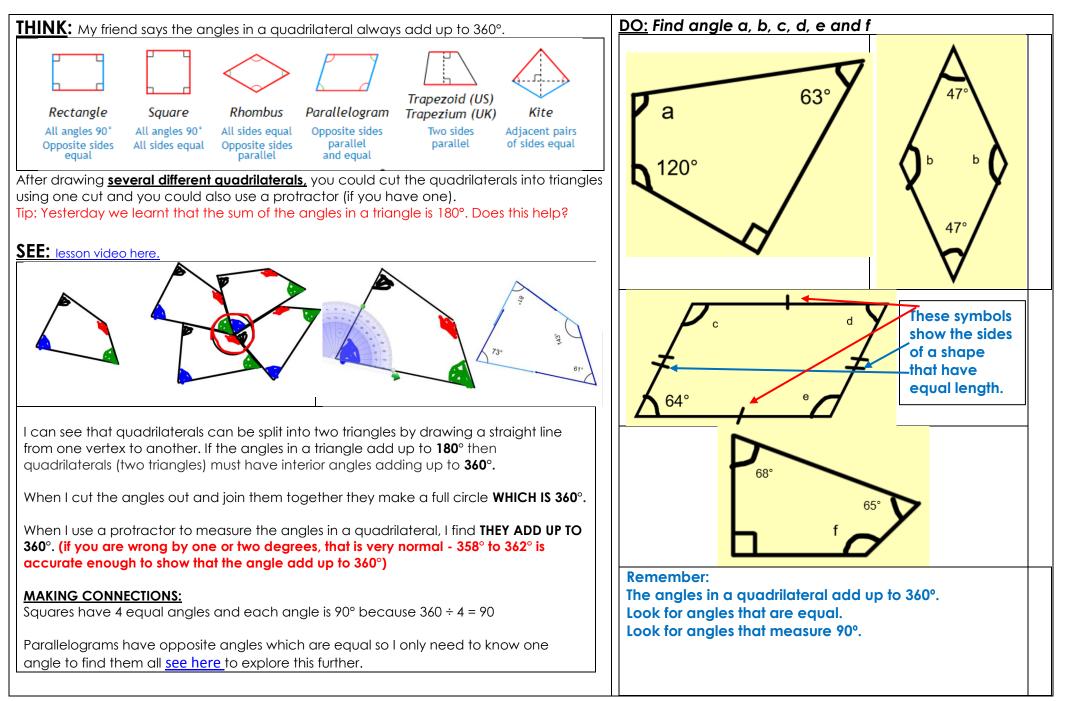


DAY 2 RESOURCES:

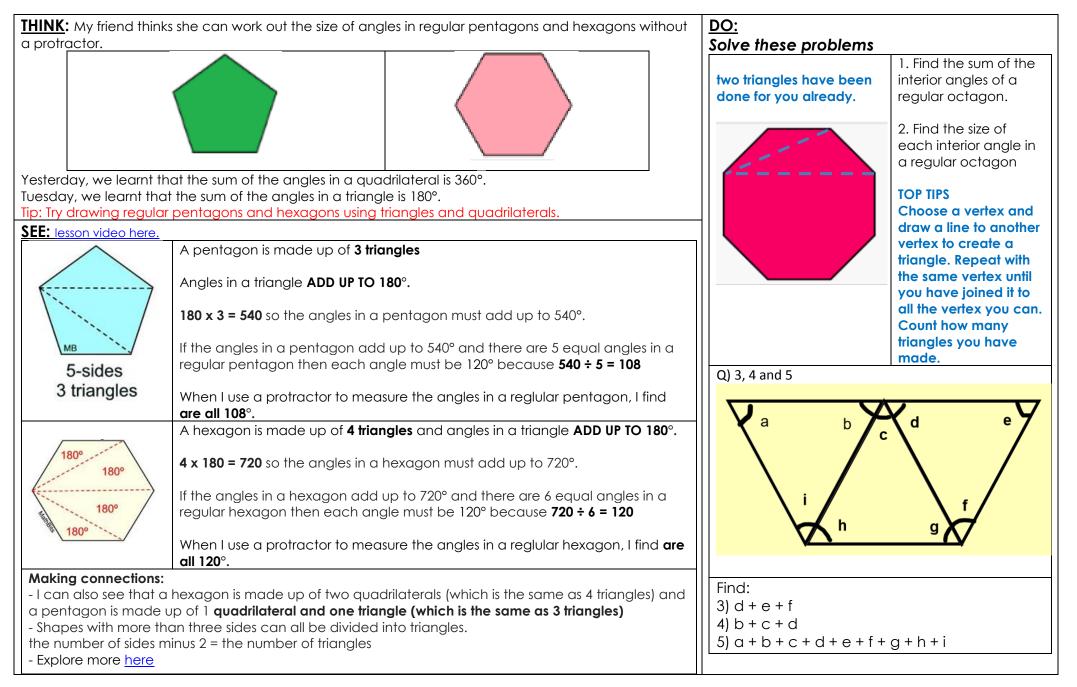




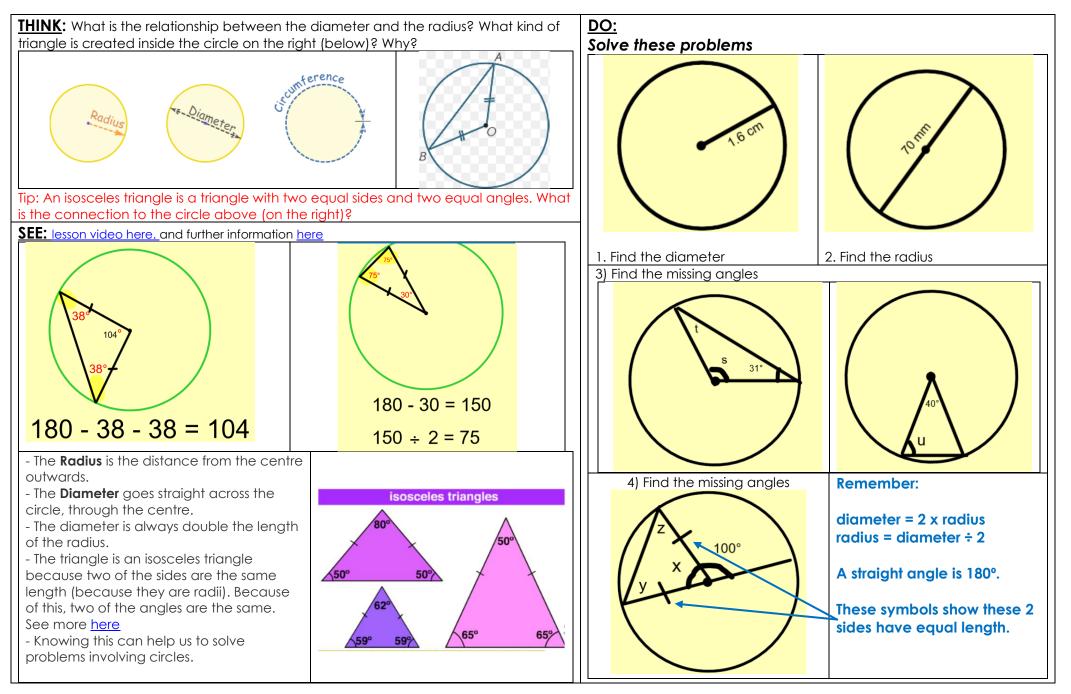
DAY 3 RESOURCES:



DAY 4 RESOURCES:

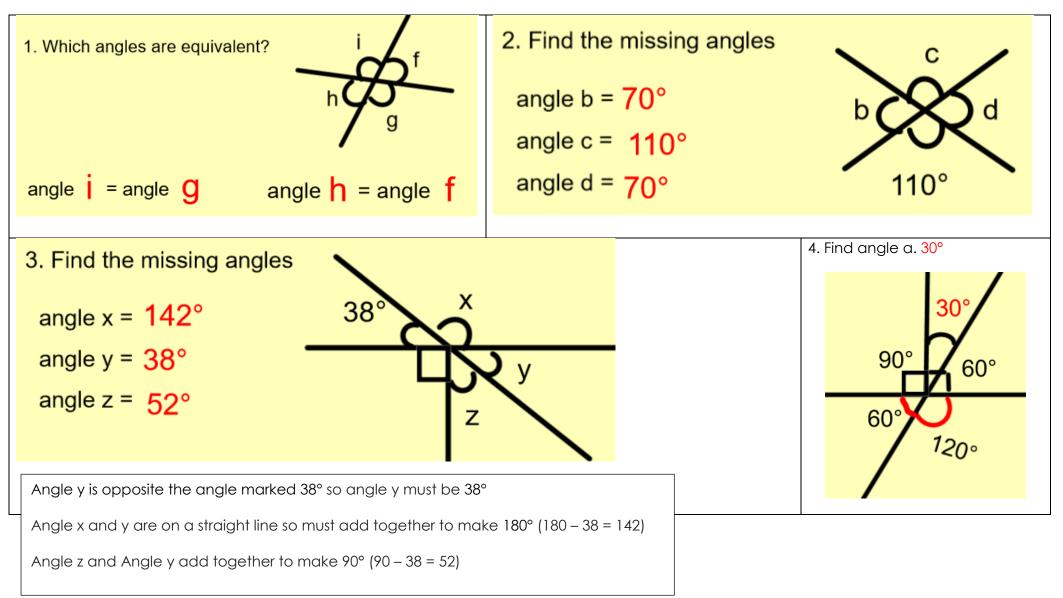


DAY 5 RESOURCES:



ANSWERS:

Day 1



ANSWERS:

Day 2	Day 3	Day 4	Day 5
a = 103°	a = 87°	1) 1080° - An octagon is made up of 6 triangles. 180 x 6 = 1080	1) 3.6cm
b = 65°	b = 133°	2) 135° - An octagon has eight equal	2) 35mm
c = 126°	c = 116°	angles so 1080 ÷ 8 = 135	3) t = 31°
d = 27°	$d = 64^{\circ}$	3) 180°	s = 118°
e = 38°	e = 116°	4) 180°	υ = 70°
f = 71°	f = 137°	5) 540°	4) x = 80°
			$y = 50^{\circ}$ $z = 50^{\circ}$