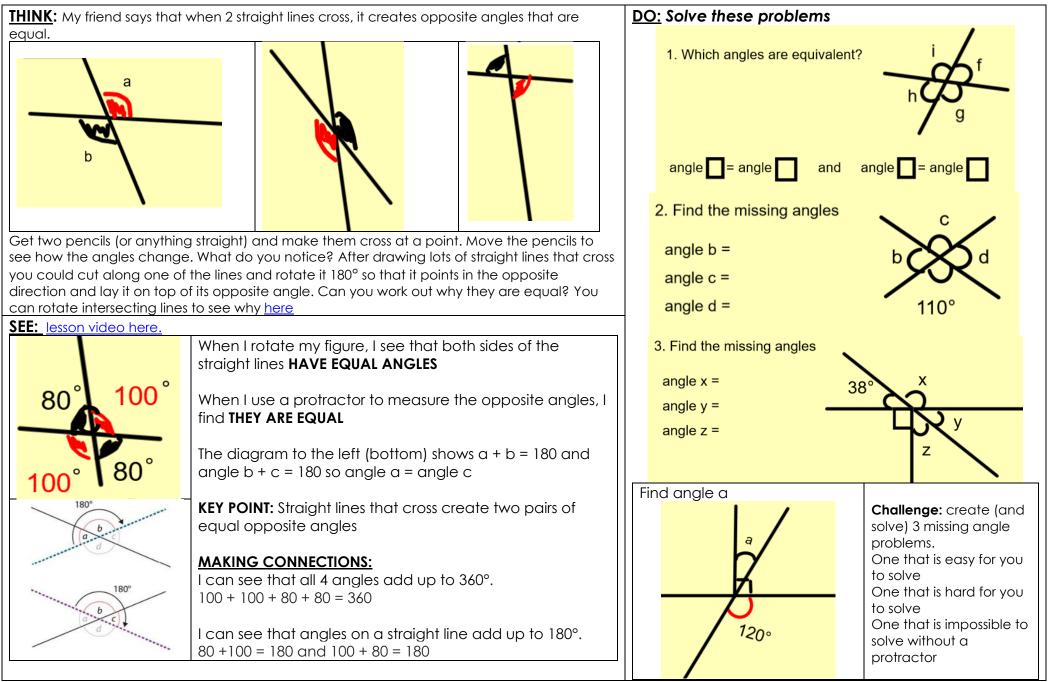
Year 6 maths – Week Beginning 04.05.20						
Theme	Geometry lesson 1 Investigating opposite angles	Geometry lesson 2 Investigating angles in triangles	Geometry lesson 3 Investigating angles in quadrilaterals	Geometry lesson 4 Solving problems involving angles in triangles and quadrilaterals	Geometry 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>Rectangle</u> All angles 90° All angles 90° All sides equal Do you agree/disagree? Can you prove it? Tip: Yesterday we learnt that the sum of the angles in a triangle is 180°. Does this help? <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. Remember: parallelograms have 2 pairs of opposite angles that are equal. See here for more	(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)	



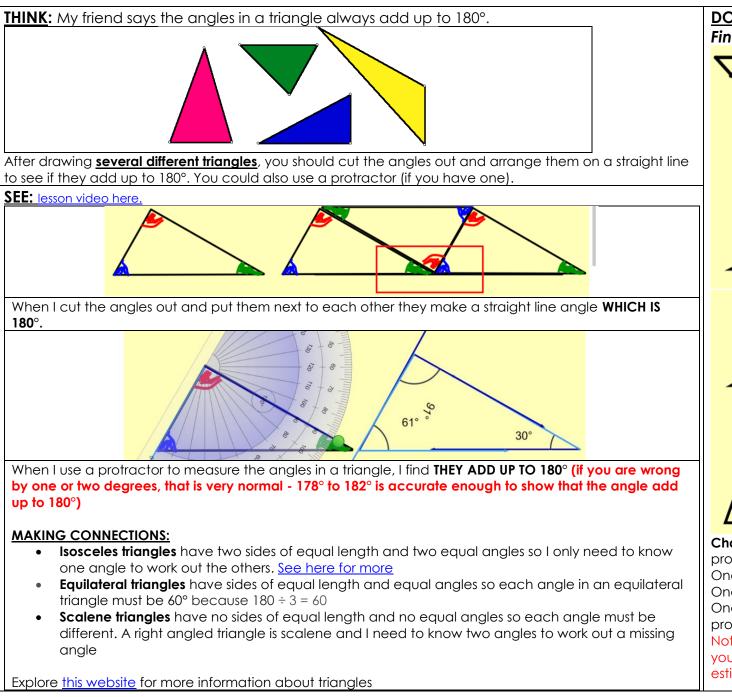
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#### DAY 1 RESOURCES:

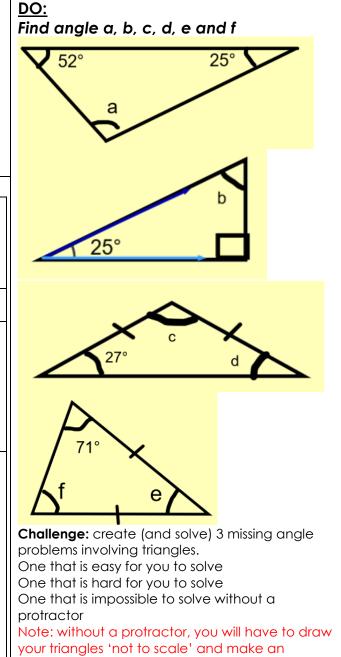




### DAY 2 RESOURCES:

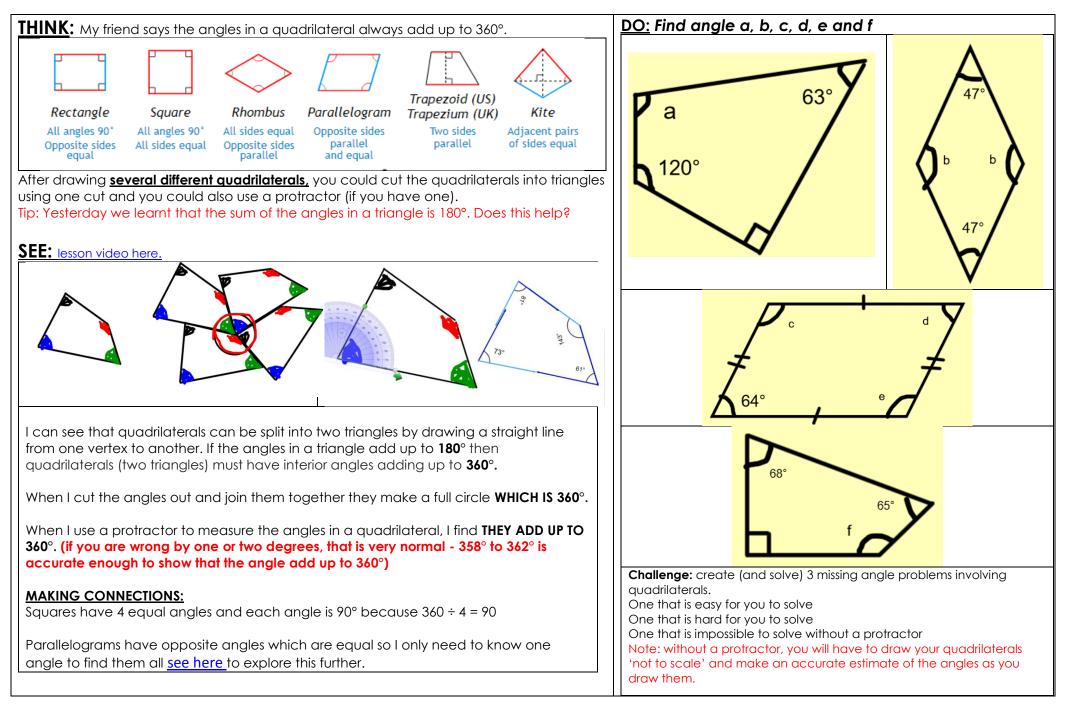




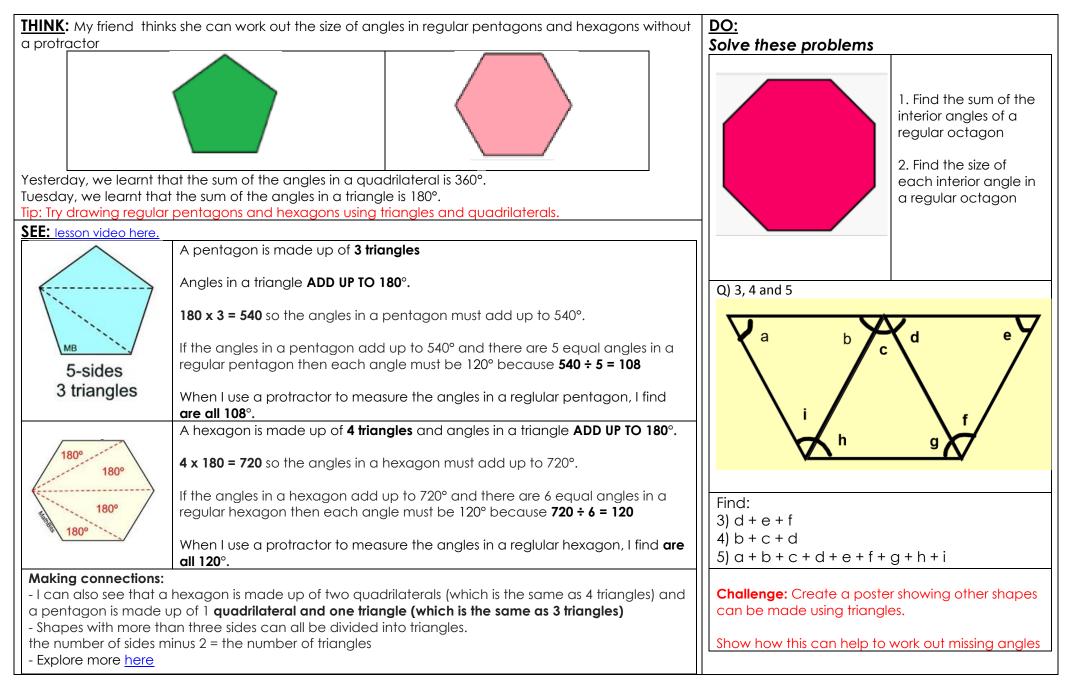


estimate of the angles as you draw them.

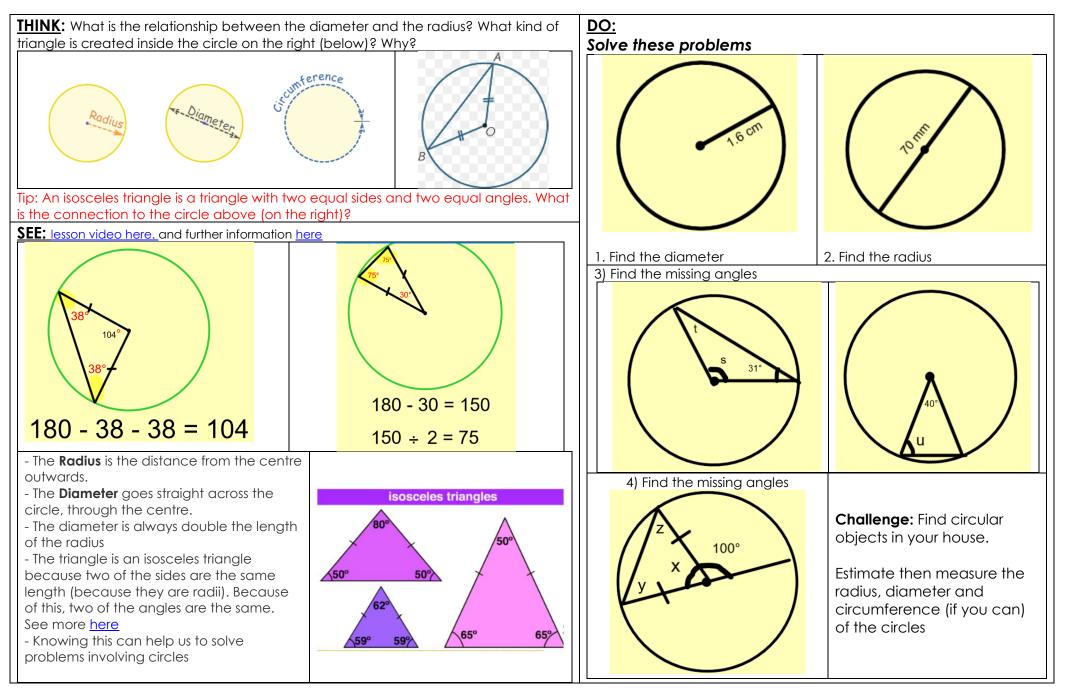
### DAY 3 RESOURCES:



### DAY 4 RESOURCES:

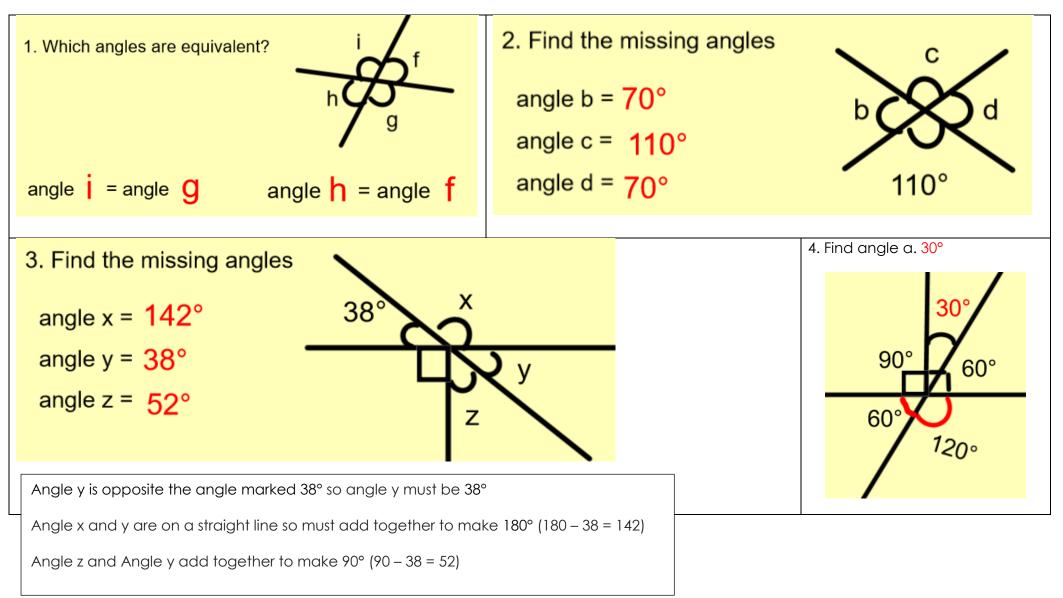


#### DAY 5 RESOURCES:



# **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) 35mm
c = 126°	c = 116°	2) 135° - An octagon has eight equal angles so 1080 ÷ 8 = 135	3) t = 31°
d = 27°	d = 64°	3) 180°	$s = 118^{\circ}$
e = 38°	e = 116°	4) 180°	$U = 70^{\circ}$
f = 71°	f = 137°	5) 540°	4) $x = 80^{\circ}$ $y = 50^{\circ}$
			$z = 50^{\circ}$