WORKSHEET 3 PROPERTIES OF 2D FIGURES - CHAPTER 7

WHAT CAN YOU SIT ON, SL	EEP ON AND BRUSH YOUR	. TEETH V 	VITH?
1 Name a 12 sided plane figure.			(****
2 Label these figures as either co	onvex, regular or non-convex? [B]	[C] ,	
3 Name these triangles from the [A]	ir appearance as either acute, ri	ght or obtu [C]	ise angled.
4 Which triangle is isosceles? [A] 70° 40°	[B]	40°	[C] 40°
5 Name the quadrilateral shown (a) 6 Answer True or False to these (a) The opposite angles of (b) The opposite angles of (c) The adjacent angles of	e statements. a parallelogram are equal.	(c) tary.	
7 Answer True or False to these (a) All squares are kites. (b) All rectangles are kites (c) All rhombuses are kites			
8 What order of rotational sym (a) Isosceles triangle	metry do these triangles have? (b) Scalene triangle	(c) Equ	ilateral triangle

9 What ar sides?	ngle is sui	btended at	the centre	of a	circle bo	unding	a regul	ar octa	gon by one of	the
10 What is the order of rotational symmetry of: (a) An isosceles trapezium (b) A square (c) A rectangle.										
11 Which quadrilateral is identified uniquely by this property? (a) Diagonals perpendicular [A] Rectangle [B] Parallelogram [C] Rhombus [D] None of these										
	nals bisect	t each other		-	Trapezi		us	[D]	none of these	
(c) One pa			ooth paralle Rhombu	el and	-	Parallel	ogram		Square	
12 What ancient puzzle is derived from dividing a square into 7 geometrical shapes?										
 13 A semi-regular tessellation consists of [A] A pattern with no regular shapes that covers the plane. [B] A mixture of regular and irregular plane figures that cover the plane. [C] A mixture of different regular figures that cover the plane. [D] Any set of interlocking shapes that cover the plane. 										
 14 Find the sum of the angles in these polygons. (Note that angle sums of polygons are the same whether they are regular polygons or not). (a) Decagon (b) Nonagon (c) Heptagon 										
Answers	•									
A B C 45°	C	I. Danton ala)	Dod	Е	HA	I C	<u>N</u>	O Right	
45	4	Rectangle Rhombus Isosceles Tr	apezium	Dou	ecagon	A	B C	1 3	Acute Obtuse	
R	S	T	T U							
Tangram	Regular Non-con Convex	Tru	e True le False	144 126 900	0°					
$\overline{13}$ $\overline{10}$	4 13		3 9 1	1 5	13	8 -5	<u>.</u>			
6 3	3 6 4	9 12	7 2 4	<u>.</u> 15						