WORKSHEET 1 PROPERTIES OF 2D FIGURES - CHAPTER 7

WHY DO FIREMEN WEAR RED BRACES?
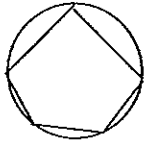

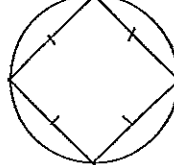
1 Name a plane figure with the given number of sides.   (a) 4   (b) 5   (c) 6

2 which one of these 3 figures is a regular figure?

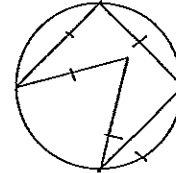[A]   [B]   [C]
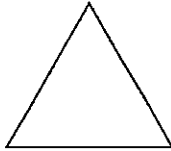
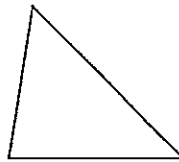**3** Identify each of these triangles as either scalene, isosceles or equilateral.
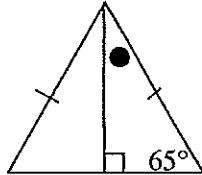
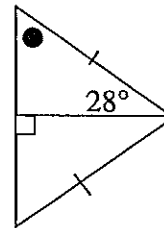(a)   (b)   (c)

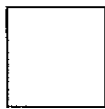**4** Calculate the size of the angle marked ●

(a)   (b)

65°   28°

5 Name the quadrilateral shown
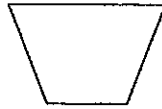
(a)   (b)   (c)

6 Answer True or False to these statements
   (a) The diagonals of a parallelogram are equal
   (b) The diagonals of a rhombus are equal
   (c) The diagonals of a rhombus are perpendicular.

7 Answer True or False to these statements
   (a) All squares are rectangles
   (b) All parallelograms are rhombuses
   (c) All trapeziums are parallelograms

8 Name the type of triangle that has the following number of axes of symmetry.
(a) 1   (b) 3   (c) 0

9 Name 3 types of quadrilaterals that have at least 2 axes of symmetry.

10 What is the order of rotational symmetry of:

       (a) A regular pentagon   (b) A regular hexagon   (c) A regular octagon.

11 Which quadrilateral is identified uniquely by this property?

(a) 2 pairs of opposite sides parallel

    [A] Trapezium   [B]   Parallelogram [C]   Square   [D]   none of these

(b) All sides equal

    [A] Rectangle   [B]   Rhombus   [C]   Trapezium   [D]   none of these

(c) All angles 90°

    [A] Rectangle   [B]   Rhombus   [C]   Trapezium   [D]   Kite

12 Here are 4 tetrominoes (shapes made up of 4 squares). Draw the missing fifth one.
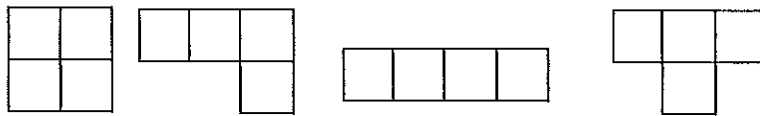
13 In order for a regular shape to tessellate the plane, it is necessary for:

[A] Each angle to be a factor of 360°.

[B] The sum of the angles to be 360°.

[C] No angle to exceed 90°.

[D] All sides to be equal.

14 A semi-regular tessellation is made up of:

[A] Irregular figures.

[B] A mixture of regular and irregular figures.

[C] Half regular and half irregular figures.

[D] A mixture of different regular figures.

15 How many sides has a decagon?

Answers:

A	D	E	F	G	H	I	L	N
B	25° 62°	5 6 7	Quadrilateral Pentagon Hexagon	Equilateral Scalene Isosceles	D	False False True	A	Isosceles Equilateral Scalene

M	O	P	R	S	T	W
D	Square Trapezium Rhombus	True False False	Rhombus Rectangle Square	B B A		10

__ __ __ __ __ __   __ __ __ __ __   __ __ __ __ __ __ __ __ __
12 5 11 12 5 7   12 14 10 6 9   7 2 8 12 11 1 9 5 14

__ __ __ __ __ __ __   __ __ __ __
1 2 13 13 6 8 3   4 5 15 8