WORKSHEET 17   YEAR 09

SUBJECT: MATHEMATICS   NAME OF STUDENT: _____
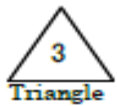
STRAND	*GEOMETRY*
SUB-STRAND	*Angles*
Content Learning Outcome	Discover and apply properties of shapes, and angles on pairs of intersecting lines

Angles in a polygon

Objective:

- Identify the different types of polygon
- Calculate the angles of polygons using the polygon properties

Polygon with number of sides

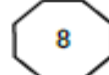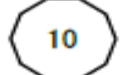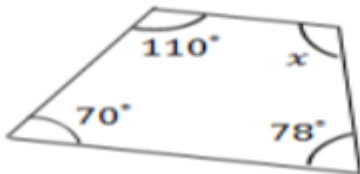| 3	4	5	6	7	8	9	10
Triangle	Quadrilateral	Pentagon	Hexagon	Heptagon	Octagon	Nonagon	Decagon

The sum of the interior angles in an n-sided polygon is **180 ° × (n – 2)**

The sum of the exterior angles in an n-sided polygon is always equal to **360°**

Exercise 1

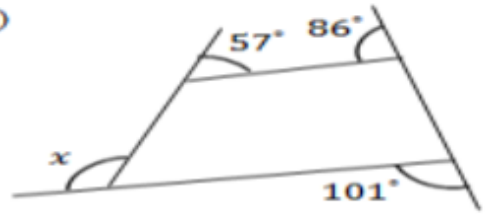Work out the angles marked with letters

(a)

(b)   regular hexagon

(c)   regular pentagon
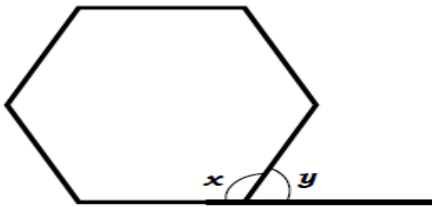

(d)

(e)   regular hexagon

(f)   regular octagon

Fiji Year 9 External Paper- 2015

1. For the regular hexagon given below, calculate the size of the angle marked **x** and **y**

(2 m)

2. What name is given to a nine – sided polygon   **(1m)**