# Mathematical Aptitude

# **Understanding Quadrilateral**

## **Application Based Questions**

### **Q.1.** Multiple choice questions:

**Directions:** Read the following questions and choose the answer that best answers the questions.

- 1. Angle formed by the bisector of any two consecutive angles of a quadrilateral is equal to
  - (a) thrice the difference of the remaining angles
  - (b) half the difference of the remaining angles
  - (c) half the sum of the remaining two angles
  - (d) twice the difference of the remaining two angles
- If each interior angle of a regular polygon is twice as large as the exterior angle, the number of sides is
  (a) 4
  (b) 6
  (c) 10
  (d) 8
- **3.** ABCDE is a regular pentagon. The measure of the angles marked 'y' is:



#### Q.2. Subjective questions:

(a) 72°

- **1.** One of the diagonals of a rhombus is equal to a side of the rhombus. Then find the angles of the rhombus.
- Ans.

**2.** The given diagram shows three parallel lines AD, BE and CF in which B is the mid-point of AC and CD intersect BE at *x*. what is the sum of AD and CF?



