

## UNDERSTANDING QUADRILATERALS

### CONVEX AND CONCAVE POLYGON

#### EXERCISE

**Q.1** Write true or false for the following statements.

- (a) In a convex quadrilateral, there is at least one angle which is less than  $180^\circ$ .
- (b) A quadrilateral may have four acute angles.
- (c) A quadrilateral may have four obtuse angles.
- (d) At least one angle of a concave quadrilateral is more than  $180^\circ$ .
- (e) A line segment joining two points in the interior of a quadrilateral lies entirely within the interior of the quadrilateral.

**Q. 2** What can you say about the angle sum property of a convex polygon having:

- (a) 9 sides
- (b) 7 sides
- (c) 10 sides
- (d) 12 sides

## ANSWER KEY

1. (a) F

(b) F

(c) F

(d) T

(e) T

2. (a)  $1260^\circ$

(b)  $900^\circ$

(c)  $1440^\circ$

(d)  $1800^\circ$