

HOTS QUESTION
CHAPTER-4 BASIC GEOMETRICAL IDEAS

1. The number of diagonals of a hexagon is _____.
2. T/F. Two parallel lines meet at two different points.

Name the vertices and the line segments in Fig. 2.27.

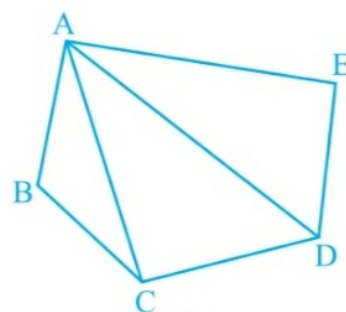


Fig. 2.

10

3.

- Write down fifteen angles (less than 180°) involved in Fig. 2.28

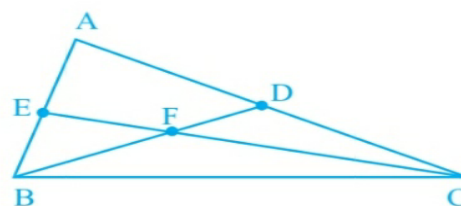


Fig. 2.28

4.

5. If the sum of two angles is greater than 180° then which of the following is not possible for the two angles?
 - a. One obtuse and one acute angle
 - b. One right and one acute angle
 - c. Two obtuse angles
 - d. Two right angles
6. A polygon has prime number of sides, Its number of sides is equal to the sum of the two least consecutive primes. The number of diagonals of the polygon is _____



7.

In Fig. 2.11, $AB = BC$ and $AD = BD = DC$.

The number of isoscles triangles in the figure is

- (A) 1 (B) 2
(C) 3 (D) 4

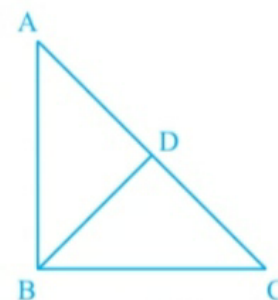


Fig. 2.11

8.

In Fig. 2.12,

$\angle BAC = 90^\circ$ and $AD \perp BC$.

The number of right triangles in the figure is

- (A) 1 (B) 2
(C) 3 (D) 4

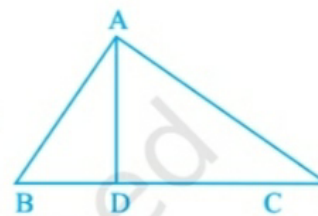


Fig. 2.12

