

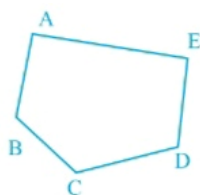
BCM SCHOOL, BASANT AVENUE, DUGRI ROAD, LUDHIANA  
 JULY ASSIGNMENT  
 CLASS: VI (MATHEMATICS)  
 TOPICS: BASIC GEOMETRICAL IDEAS & FRACTIONS

SECTION A (Multiple Choice Questions)

1. Which of the following is a closed figure?  
 a) Line      b) Ray      c) Triangle      d) Line segment
2. What do we call a straight path that extends infinitely in both directions?  
 a) Line segment    b) Line    c) Ray    d) Curve
3. Assertion (A): A fraction where the numerator is greater than the denominator is called an improper fraction.  
 Reason (R): An improper fraction represents a value greater than or equal to 1.  
 a. Both Assertion and Reason are correct and Reason is the correct explanation for Assertion  
 b. Both Assertion and Reason are correct and Reason is not the correct explanation for Assertion.  
 c. Assertion is true but the reason is false.  
 d. Assertion is false but the reason is true.

SECTION B (2 MARKS QUESTIONS)

4. Convert the following improper fraction to a mixed number:  $78/23$
5. Name the line segments, vertices and angles in the given figure:

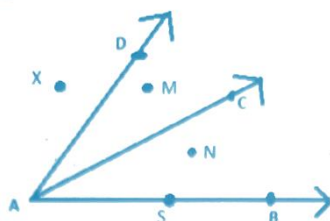


SECTION C (3 MARKS QUESTIONS)

6. Arrange the following fractions in ascending order:  $\frac{2}{3}, \frac{5}{6}, \frac{1}{2}$
7. Draw figures of the following:  
 a) Line p contains C and D but not E.  
 b)  $\overrightarrow{XY}$  and  $\overrightarrow{XZ}$  meet at X.  
 c) Point A lies on line segment  $\overline{MN}$ .

SECTION D (5 MARKS QUESTIONS)

8. Name:  
 i. All the angles of the given figure  
 ii. Point/s lying in the interior of  $\angle CAD$  and  $\angle BAC$   
 iii. Point/s lying in the exterior of  $\angle DAB$   
 iv. Point/s lying on  $\angle DAB$

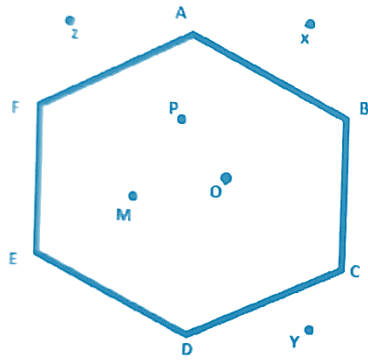


9. The normal route from my house to the school is  $1\frac{4}{5}$  km long. There is a short cut which is  $1\frac{7}{10}$  km long.  
 a) How much shorter is the short cut than the normal route?  
 b) If I go by the normal route and return by the short cut, how much do I walk?

SECTION E (Case Study)

10. Case Study

In the given figure, polygon ABCDEFA is a boundary wall of a city. The important places in the city and its neighbourhood are denoted by the capital letters.



On the basis of the above information, answer the following questions:

- How many places are located within the boundary of the city?
- Name the vertices adjacent to vertex E.
- Name the places lying in the interior and exterior of the city.