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**KV SPG COMPLEX DEARKA NEW DELHI**  
**FORMATIVE ASSESMENT 1**  
**Class - VII MATHS**

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Time allowed: 1:30 hours

Maximum Marks: 40

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**Section A**

1. The sum of interior angles of a quadrilateral is : (1 × 5=5)
  - (a)  $180^0$
  - (b)  $360^0$
  - (c)  $540^0$
  - (d) None
2. The sum of exterior angles of a polygon is :
  - (a)  $180^0$
  - (b)  $360^0$
  - (c)  $540^0$
  - (d) None
3. Number of diagonals of a pentagon is :
  - (a) 3
  - (b) 4
  - (c) 5
  - (d) 6
4. Additive inverse of  $-6/5$ 
  - (a)  $-5/6$
  - (b)  $6/5$
  - (c)  $5/6$
  - (d)  $-6/5$
5. If  $4y=20$ , then the value of  $3y$  is :
  - (a) 15
  - (b) 25
  - (c) 20
  - (d) 30

**Section B**

**(2 × 4=8)**

6. Represent these numbers on number line (a)  $7/8$  (b)  $-4/5$
  7. Write (a) the rational no. that does not have a reciprocal. (b) the rational no. that are equal to their reciprocals.
  8. How many diagonals does each of the following have:  
(a) Convex quadrilateral (b) a triangle
  9. Simplify  $2/5 \times (-3/7) - 1/6 \times 3/2 + 1/14 \times 2/5$
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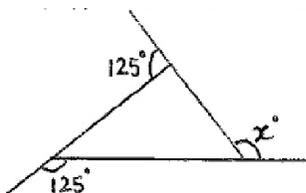
**Section C**

**(2 × 4 = 15)**

10. An exterior angle of a triangle measures  $120^\circ$  and its interior opposite angle are in ratio 7:5. Find the angles of the triangle.

11. How many sides does a regular polygon have if the measure of an exterior angle is  $24^\circ$ ?

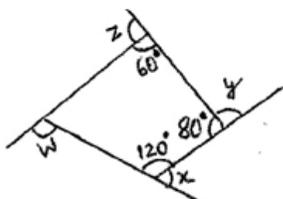
12. Find  $x$  in the figure.



13. What is a regular polygon? State the name of a regular polygon of

(i) 3 sides (ii) 4 sides (iii) 6 sides

14. Find  $x + y + z + w$



**Section D** **(4 × 3 = 12)**

15. The denominator of a rational number is greater than its numerator by 8. If the numerator is increased by 17 and the denominator is decreased by 1, the number obtained is  $\frac{3}{2}$ . Find the rational number.

16. Sum of the digits of a two digit number is 9. When we interchange the digits, it is found that the resulting new number is greater than the original number by 27. What is the two digit number?

17. Five rational numbers between

(a)  $\frac{2}{3}$  and  $\frac{4}{5}$  (b)  $-\frac{3}{2}$  and  $\frac{5}{3}$