

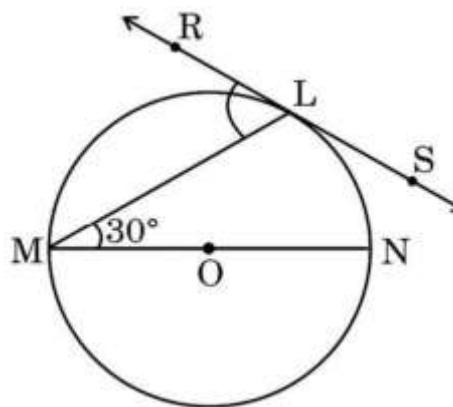
SETH M. R. JAIPURIA SCHOOLS BANARAS PARAO CAMPUS
WORKSHEET (2025-26)
Subject – MATHEMATICS
Class – X

Name - _____ Roll No- _____ Section- _____

Roll No- **Section-**

Section-

This section has 20 Multiple Choice Questions (MCQs) carrying 1 mark each. $20 \times 1 = 20$



8. In the given figure, $PQ \parallel BC$. If $\frac{AP}{PB} = \frac{4}{13}$ and $AC = 20 \cdot 4$ cm, then the length of AQ is:
(A) $2 \cdot 8$ cm (B) $5 \cdot 8$ cm (C) 3.8 cm (D) 4.8 cm

9. Which of the following statements is incorrect?
(A) Two congruent figures are always similar. (B) A square and a rhombus of the same area are always similar.
(C) Two equilateral triangles are always similar. (D) Two similar triangles need not be congruent.

10. The sum of the exponents of prime factors in the prime factorisation of 4004 is:
(A) 5 (B) 4 (C) 3 (D) 2

Questions number 19 and 20 are Assertion and Reason based questions

- (A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of the Assertion (A).
- (B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of the Assertion (A).
- (C) Assertion (A) is true, but Reason (R) is false.
- (D) Assertion (A) is false, but Reason (R) is true.

19. Assertion (A): Common difference of the AP: 5, 1, -3, -7, ... is 4

Reason (R): Common difference of the AP: $a_1, a_2, a_3, \dots, a_n$ is obtained by $d = a_n - a_{n-1}$.

20. **Assertion (A):** The pair of linear equations $px + 3y + 59 = 0$ and $2x + 6y + 118 = 0$ will have infinitely many solutions if $p = 1$.

Reason (R): If the pair of linear equations $px + 3y + 19 = 0$ and $2x + 6y + 157 = 0$ has a unique solution, then $p \neq 1$.