

SECTION – A

Questions 1 to 6 carry 1 mark each.

- The standard form of $-\frac{48}{60}$ is
 (a) $\frac{48}{60}$ (b) $-\frac{60}{48}$ (c) $-\frac{4}{5}$ (d) $-\frac{4}{-5}$
- Find x such that $\frac{13}{6} = \frac{-65}{x}$
 (a) -30 (b) 30 (c) -6 (d) none of these
- Find x such that $\frac{-3}{8}$ and $\frac{x}{-24}$ are equivalent rational numbers.
 (a) 3 (b) 9 (c) 8 (d) none of these
- Fill in the boxes with the correct symbol: $\frac{-4}{5} \boxed{\dots} \frac{-5}{7}$
 (a) > (b) < (c) = (d) none of these
- Write the next rational number in the pattern: $\frac{-3}{5}, \frac{-6}{10}, \frac{-9}{15}, \frac{-12}{20}, \dots$
 (a) $\frac{12}{25}$ (b) $\frac{15}{25}$ (c) $\frac{-15}{25}$ (d) none of these
- Rewrite the rational number $\frac{44}{-72}$ in the simplest form.
 (a) $\frac{22}{-36}$ (b) $\frac{11}{-18}$ (c) $\frac{11}{18}$ (d) none of these

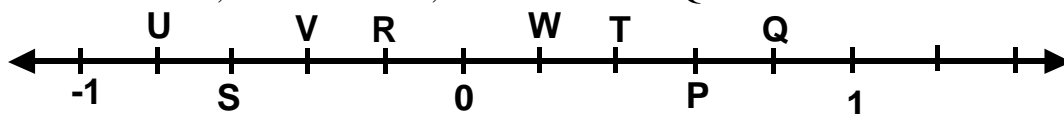
SECTION – B(CCT Questions)

Questions 7 to 10 carry 1 mark each.

CCT Question

In Maths, a rational number is a type of real number, which is in the form of $\frac{p}{q}$ where q is not equal to zero. Any fraction with non-zero denominators is a rational number.

Aditya is studying in Class VII and he was drawing the points P, Q, R, S, T, U and V on the number line such that, $US = SV = VR$, and $WT = TP = PQ$.



Answer the following questions based on the above information:

- The rational number represented by Q
 (a) $\frac{3}{5}$ (b) $\frac{2}{5}$ (c) $\frac{4}{5}$ (d) none of these

8. The rational number represented by R
 (a) $\frac{-3}{5}$ (b) $\frac{-2}{5}$ (c) $\frac{-4}{5}$ (d) none of these
9. The rational number represented by S
 (a) $\frac{-3}{5}$ (b) $\frac{-2}{5}$ (c) $\frac{-4}{5}$ (d) none of these
10. The rational number represented by T
 (a) $\frac{3}{5}$ (b) $\frac{2}{5}$ (c) $\frac{4}{5}$ (d) none of these

SECTION – C

Questions 11 to 13 carry 2 marks each.

11. Add (i) $\frac{7}{8}$ and $\frac{-5}{8}$ (ii) $\frac{4}{-5}$ and $\frac{3}{5}$
12. What should be added to $\frac{-7}{12}$ so as to get $\frac{9}{16}$?
13. What number should be subtracted from $\frac{-7}{8}$ so as to get $\frac{5}{12}$?

SECTION – D

Questions 14 to 17 carry 3 marks each.

14. Arrange the rational numbers $\frac{-3}{7}, \frac{5}{-14}, -\frac{7}{12}$ in ascending order.
15. Subtract: (i) $\frac{7}{8}$ from $\frac{5}{12}$ (ii) $\frac{-4}{9}$ from $\frac{-7}{18}$
16. Satpal walks $\frac{2}{3}$ km from a place P, towards east and then from there $1\frac{5}{7}$ km towards west.
 Where will he be now from P?
17. Simplify: $\frac{8}{-15} + \frac{7}{20} - \frac{-11}{35} + \frac{1}{5}$

SECTION – E

Questions 18 to 20 carry 4 marks each.

18. Simplify: $\left(\frac{-5}{9} \times \frac{72}{-125}\right) - \left(\frac{11}{17} \times \frac{34}{55}\right) + \left(\frac{28}{-13} \times \frac{-52}{21}\right)$
19. Draw the number line and represent the following rational numbers on it:
 (i) $\frac{3}{4}$ (ii) $\frac{-5}{8}$
20. Find: (i) $\frac{6}{25} \div \frac{3}{10}$ (ii) $\frac{-9}{44} \div \frac{3}{11}$