

Std-VII Lesson-7 RATIONAL NUMBERS

Name _____ Class _____ Sec. _____ Roll No. _____

Marks
25

1. Add :

(1 × 2 = 2 mark)

(i) $\frac{-12}{55}$ and $\frac{8}{11}$

(ii) $\frac{5}{6}$, $\frac{9}{16}$ and $\frac{-11}{24}$

2. Subtract :

(1 × 2 = 2 mark)

(i) $-\frac{5}{18}$ from $\frac{-19}{24}$

(ii) $-\frac{7}{16}$ from $\frac{3}{5}$

3. Subtract the sum of $\frac{11}{12}$ and $\frac{-5}{6}$ from 2. (1 mark)

4. Simplify : $\frac{-11}{24} + \frac{7}{18} + \frac{7}{(-9)} + (-2\frac{1}{8})$ (2 mark)

5. Find the following products (1 × 2 = 2 mark)

(i) $(\frac{-9}{19}) \times (\frac{57}{25})$

(ii) $\frac{-14}{25} \times \frac{9}{16} \times \frac{5}{6} \times \frac{8}{7}$

6. What should be added to $(-2\frac{1}{9})$ to get 15? (1 mark)

7. Divide the sum of $\frac{65}{12}$ and $\frac{8}{3}$ by their difference. (2 mark)

8. State which of the following are True and which are false (1/2 × 4 = 2 mark)

(a) $\frac{-3}{11}$ and $\frac{3}{-11}$ are not equal

(b) Every integer is a rational number

(c) $\frac{5}{-9}$ and $\frac{10}{18}$ are equivalent rational numbers

(d) There is only one rational number between 1 and 2.

9. In a theatre there were 1200 persons. $\frac{1}{2}$ of these were women and $\frac{1}{3}$ of these women were school girls. Find the number of school girls in the theatre. (2 mark)

10. Write three rational numbers between $\frac{1}{3}$ and $\frac{1}{2}$. (2 mark)

11. Express : $(1 \times 3 = 3)$

(i) $\frac{3}{16}$ as a decimal number.

(ii) $\frac{1}{7}$ as a decimal number.

(iii) 10.3125 as a rational number in the form $\frac{a}{b}$.

12. Tick the correct alternative : $(1 \times 2 = 2)$

(i) $\frac{3}{11}$ when expressed in the decimal form is

(a) $0.\overline{28}$ (b) $0.\overline{27}$ (c) 0.28 (d) 0.29

(ii) The decimal form of $\frac{1}{3}$ is

(a) Terminating (b) Terminating and repeating
(c) Non-terminating and repeating (d) Non-terminating non-repeating

13. Find the value of x if $(1 \times 2 = 2)$

(i) $\frac{15}{9}$ and $\frac{x}{12}$ are equivalent rational numbers, and

(ii) $\frac{2x}{5}$ and $\frac{28}{35}$ are equivalent rational numbers.