

INTERNATIONAL INDIAN SCHOOL BURAIDAH

Worksheet for the Academic Year 2024-25

CLASS: 7 / SUBJECT: Maths

LESSON : 9 Rational Numbers

1. Represent the following rational numbers on a number line.
a) $\frac{2}{4}$ b) $\frac{3}{8}$ c) $-\frac{4}{6}$
2. Write down three rational numbers equivalent to each of the following
a) $\frac{8}{12}$ b) $-\frac{4}{7}$
3. Write down the following rational numbers in the standard form:
a) $-\frac{12}{18}$ b) $\frac{8}{24}$ c) $-\frac{13}{-65}$
4. In each of the following find which one is greater
i) $\frac{6}{7}, \frac{5}{6}$ ii) $-\frac{1}{5}, \frac{6}{7}$
5. Arrange the following in ascending order
i) $-\frac{3}{2}, -\frac{8}{5}, \frac{9}{-13}, \frac{1}{-3}$
ii) $\frac{2}{5}, \frac{4}{3}, \frac{3}{7}, \frac{11}{15}$
6. List 5 rational numbers between $-\frac{4}{5}$ and $-\frac{2}{3}$
7. List 12 rational numbers between $-\frac{3}{7}$ and $-\frac{1}{5}$
8. Solve the following:-
 - a) $\frac{4}{-11} + \frac{7}{11}$
 - b) $\frac{3}{2} + \frac{7}{5}$
 - c) $\frac{2}{3} - \frac{4}{3}$
 - d) $\frac{2}{7} - \frac{1}{5}$
 - e) $-\frac{1}{2} - (-\frac{11}{12})$
 - f) $\frac{2}{9} + (-\frac{1}{3}) + (-\frac{4}{12})$
 - g) $\frac{11}{13} \times (-\frac{1}{4})$
 - h) $\frac{2}{9} \times \frac{5}{3}$
 - i) $(\frac{1}{2} + \frac{3}{8}) \times (\frac{7}{3} + \frac{1}{6})$
 - j) $\frac{6}{11} \div \frac{3}{2}$
 - k) $\frac{8}{9} \div (-\frac{4}{-5})$
9. The product of two rational numbers is -10. If one of the number is $\frac{1}{5}$, find the other.
10. By what rational number should we multiply $-\frac{2}{13}$ to get -1?
11. Find the product of the reciprocals of $\frac{9}{16}$ and $-\frac{11}{18}$
12. What should be added to $-\frac{7}{9}$ to get -5

13. The sum of two rational numbers is $\frac{5}{7}$. If one of the numbers is $-\frac{1}{35}$, find the other.
