

Board – CBSE

Class – VII

Topic: Rational number

- Write down the numerator of each of the following rational numbers:
 - $\frac{-7}{5}$
 - $\frac{15}{-4}$
- Write down the denominator of each of the following rational numbers:
 - $\frac{-4}{5}$
 - 15
- Write the following integers as rational numbers with denominator 1:
-19, 27, 71, -101.
- Separate positive and negative rational numbers from the following rational numbers:
 $\frac{-5}{-7}, \frac{12}{-5}, \frac{7}{4}, \frac{13}{-9}, 0, \frac{-18}{-7}, \frac{-95}{116}, \frac{-1}{-9}$
- Which of the following rational numbers are positive?
 - $\frac{-8}{7}$
 - $\frac{9}{8}$
 - $\frac{-19}{-13}$
 - $\frac{-21}{13}$
- Which of the following rational numbers are negative?
 - $\frac{-3}{7}$
 - $\frac{-5}{-8}$
 - $\frac{9}{-83}$
 - $\frac{-115}{-197}$
- Which of the following statements are true or false?
 - Every whole number is a rational number.
 - Every integer is a rational number.
 - 0 is a whole number but it is not a rational number.
- Add and express the sum as a mixed fraction
 - $-\frac{12}{5} + \frac{43}{10}$
 - $\frac{24}{7} + \left(-\frac{11}{4}\right)$
 - $-\frac{31}{6} + \left(-\frac{27}{8}\right)$
- What number should be added to $\frac{-5}{11}$ so as to get $\frac{26}{33}$?
- What number should be subtracted from $\frac{3}{7}$ to get $\frac{5}{4}$?
- Multiply the rational numbers:
 - $-\frac{5}{17}$ by $\frac{51}{-60}$
 - $-\frac{6}{11}$ by $-\frac{55}{36}$
 - $-\frac{8}{25}$ by $-\frac{5}{16}$
 - $\frac{6}{7}$ by $-\frac{49}{36}$

12. By what number should we multiply $-\frac{15}{28}$, so that the product may be $-\frac{5}{7}$?
13. By what number should $-\frac{3}{4}$ be multiplied in order to produce $\frac{2}{3}$?
14. Find $(m + n) \div (m - n)$, if
- (i) $m = \frac{2}{3}, n = \frac{3}{2}$
 - (ii) $m = \frac{2}{5}, n = \frac{1}{2}$
 - (iii) $m = \frac{5}{4}, y = -\frac{1}{3}$
15. Divide the sum of $\frac{65}{12}$ and $\frac{8}{3}$ by their difference.
16. If 24 trousers of equal size can be prepared in 54 meters of cloth, what length of the cloth is required for each trouser?
17. Divide the sum of $\frac{13}{5}$ and $-\frac{12}{7}$ by the product of $-\frac{31}{7}$ and $\frac{1}{-2}$.