

## RATIONAL NUMBER WORK SHEET for class VII & VIII

1. Write down the numerator of each of the following rational numbers.

i)  $\frac{-7}{5}$     ii)  $\frac{15}{-4}$     iii)  $\frac{-17}{-21}$     iv)  $\frac{8}{9}$     v) 5

2. Write down the denominator of each of the following rational numbers

:

i)  $\frac{-4}{5}$     ii)  $\frac{11}{-34}$     iii)  $\frac{-15}{-82}$     iv) 15    v) 0

3. Write down the rational number whose numerator is  $(-3) \times 4$ , and whose denominator is  $(34 - 23) \times (7 - 4)$

4. Write the following rational numbers as integer :

$$\frac{7}{1}, \frac{-12}{1}, \frac{34}{1}, \frac{-73}{1}, \frac{95}{1}$$

5. Write the following integers as rational numbers with denominator 1.

$$-15, 17, 85, -100$$

6. Write down the rational number whose numerator is the smallest three digit number and denominator is the largest four digit number .

7. Separate positive and negative rational numbers from the following rational numbers :

$$\frac{-5}{-7}, \frac{12}{-5}, \frac{7}{5}, \frac{13}{-9}, 0, \frac{-18}{-7}, \frac{-95}{116}, \frac{-1}{-9}$$

8. Which of the following rational numbers are positive .

i)  $\frac{-8}{7}$     ii)  $\frac{9}{8}$     iii)  $\frac{-15}{-18}$     iv)  $\frac{-21}{13}$

9. Which of the following rational numbers are negative ?

i)  $\frac{-3}{7}$     ii)  $\frac{-5}{-8}$     iii)  $\frac{9}{-83}$     iv)  $\frac{-115}{-197}$

10. Write each of the following rational numbers with positive denominator

$$\frac{13}{-7}, \frac{15}{-28}, \frac{-17}{-13}$$

11. Express  $\frac{-5}{6}$  as a rational number with numerator .

i)  $-15$       ii)  $10$

12. Express  $\frac{-4}{5}$  as a rational number with denominator.

i)  $20$       ii)  $-30$

13. Express  $\frac{-48}{60}$  as a rational number with denominator 5

14. Express  $\frac{42}{-63}$  as a rational number with denominator 3 .

15. Fill in the blanks.

i)  $\frac{5}{-7} = \frac{5}{35} = \frac{5}{-77}$       ii)  $\frac{7}{13} = \frac{35}{13} = \frac{-63}{13}$

16. In each of the following , find an equivalent form of rational numbers having common denominator.

i)  $\frac{5}{6}$  and  $\frac{7}{9}$       ii)  $\frac{2}{3}, \frac{5}{6}, \frac{7}{12}$

17. Express each of the following as rational number with positive denominator.

i)  $\frac{-15}{-28}$       ii)  $\frac{6}{-9}$       iii)  $\frac{-28}{-11}$       iv)  $\frac{19}{-7}$

18. Express  $\frac{3}{5}$  as a rational number with numerator.

i)  $6$       ii)  $-15$       iii)  $21$       iv)  $-27$

19. Express  $\frac{5}{7}$  as a rational number with denominator.

i)  $-14$       ii)  $70$       iii)  $-28$       iv)  $-84$

20. Express  $\frac{3}{4}$  as a rational number with denominator.

- i) 20    ii) 36    iii) 44    iv) -80

21. Express  $\frac{2}{5}$  as a rational number with numerator.

- i) -56    ii) 154    iii) -750    iv) 500

22. Express  $\frac{-192}{108}$  as a rational number with numerator.

- i) 64    ii) -16    iii) 32    iv) -48

23. Express  $\frac{168}{-294}$  as a rational number with denominator.

- i) 14    ii) -7    iii) -49    iv) 1470

24. Write  $\frac{-14}{42}$  in a form so that the numerator is equal to

- i) -2    ii) 7    iii) 42    iv) -70