An Introduction to Rational Numbers

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

(i) (-7)/5

(ii) 15/(-4)

(iii) (-17)/(-21)

(iv) 8/9

(v) 5

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

(i) (-4)/5

(ii) 11/(-34)

(iii) (-15)/(-82)

(iv) 15

(v) 0

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

4. Write the following rational numbers as integers:

17/1, (-23)/1, 35/1, (-77)/1, 91/1.

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

-19, 27, 71, -101.

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

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

(-5)/(-7), 12/(-5), 7/4, 13/(-9), 0, (-18)/(-7), (-95)/116, (-1)/(-9)

8. Which of the following rational numbers are positive?

(i) (-8)/7   (ii) 9/8   (iii) (-19)/(-13)   (iv) (-21)/13

9. Which of the following rational numbers are negative?

(i) (-3)/7   (ii) (-5)/-8   (iii) 9/(-83)   (iv) (-115)/-197

10. Which is the following statement are true or false?

(i) Every whole number is a rational number.

(ii) Every integer is a rational number.

(ii) 0 is a whole number but it is not a rational number.