

EduSahara™ Learning Center Assignment**Grade : Class IX, ICSE****Chapter : Rational and Irrational Numbers****Name : Rational Numbers and their Decimal Expansions**

1. Express $\frac{3}{10}$ as a decimal correct to 1 decimal places

(i) 0.4 (ii) 0.3 (iii) 0.5 (iv) 0.1 (v) 0.2

2. Express $\frac{97}{100}$ as a decimal correct to 2 decimal places

(i) 0.87 (ii) 0.77 (iii) 0.97 (iv) 1.07 (v) 1.17

3. Express $\frac{421}{1000}$ as a decimal correct to 3 decimal places

(i) 0.521 (ii) 0.221 (iii) 0.421 (iv) 0.321 (v) 0.621

4. Express $\frac{2843}{10000}$ as a decimal correct to 4 decimal places

(i) 0.0843 (ii) 0.3843 (iii) 0.1843 (iv) 0.4843 (v) 0.2843

5. $4.8 =$

(i) 480 (ii) $\frac{24}{5}$ (iii) $\frac{6}{125}$ (iv) 48 (v) $\frac{12}{25}$

6. $3.9 =$

(i) $\frac{39}{10}$ (ii) 39 (iii) 390 (iv) $\frac{39}{1000}$ (v) $\frac{39}{100}$

7. $7.81 =$

(i) $\frac{781}{1000}$ (ii) $\frac{781}{100}$ (iii) 781 (iv) $\frac{781}{10000}$ (v) $\frac{781}{10}$

8. $1.339 =$

(i) $\frac{1339}{100000}$ (ii) $\frac{1339}{100}$ (iii) $\frac{1339}{1000}$ (iv) $\frac{1339}{10000}$ (v) $\frac{1339}{10}$

9. $7.7 =$

(i) 77 (ii) $\frac{77}{100}$ (iii) $\frac{77}{10}$ (iv) $\frac{77}{1000}$ (v) 770

10. $6.14 =$

(i) $\frac{307}{50}$ (ii) $\frac{307}{5000}$ (iii) $\frac{307}{5}$ (iv) 614 (v) $\frac{307}{500}$

11. $2.59 =$

(i) $\frac{259}{10000}$ (ii) 259 (iii) $\frac{259}{100000}$ (iv) $\frac{259}{100}$ (v) $\frac{259}{10}$

1000

10000

100

10

12. $3.468 =$

- (i) $\frac{1734}{5}$ (ii) $\frac{867}{25000}$ (iii) $\frac{867}{25}$ (iv) $\frac{867}{2500}$ (v) $\frac{867}{250}$

13. The recurring part of the decimal $14.7\overline{2}$ is

- (i) 221 (ii) 22 (iii) 2 (iv) 272 (v) 14.72

14. The recurring part of the decimal 14.09523809523809... is

- (i) 095238 (ii) 14.095238 (iii) 09523801
(iv) 095238095238 (v) 0952380095238

15. Convert the non-terminating recurring decimal $6.\overline{370}$ to rational number

- (i) $\frac{172}{27}$ (ii) $\frac{170}{27}$ (iii) $\frac{172}{29}$ (iv) $\frac{58}{9}$ (v) $\frac{172}{25}$

16. Convert the non-terminating recurring decimal $7.777777777777777...$ to rational number

- (i) $\frac{70}{9}$ (ii) $\frac{70}{11}$ (iii) $\frac{68}{9}$ (iv) 10 (v) 8

17. Convert the fraction $\frac{341}{21}$ to non-terminating recurring decimal

- (i) $0.16\overline{238095}$ (ii) $1.6\overline{238095}$ (iii) $16.\overline{238095}$ (iv) $1623.\overline{809523}$ (v) $162.\overline{380952}$

18. Convert the fraction $\frac{245}{9}$ to non-terminating recurring decimal

- (i) $0.\overline{2}$ (ii) $2.7\overline{2}$ (iii) $27.\overline{2}$ (iv) $272.\overline{2}$ (v) $2722.\overline{2}$

19. Which of the following fractions converts to a non-terminating recurring decimal?

- (i) $\frac{64}{1}$ (ii) $\frac{7600}{128}$ (iii) $\frac{126}{1}$ (iv) $\frac{149}{9}$ (v) $\frac{2520}{40}$

20. Which of the following fractions converts to a terminating decimal?

- (i) $\frac{209}{18}$ (ii) $\frac{209}{144}$ (iii) $\frac{19}{18}$ (iv) $\frac{1540}{160}$ (v) $\frac{211}{18}$

21. Which of the following is a pure recurring decimal?

- (i) 0.033333333333333...
(ii) 0.144444444444444...
(iii) 0.222222222222222...

(iv) 0.75555555555555...

(v) 8.22222222222222...

22. Which of the following is a mixed recurring decimal?

(i) 22.55555555555555...

(ii) 0.15555555555555...

(iii) 9.61904761904761...

(iv) 15.22222222222222...

(v) 13.81481481481481...

23. Express $\frac{3}{2}$ as a decimal correct to 2 decimal places

(i) 1.3 (ii) 1.5 (iii) 1.7 (iv) 1.6 (v) 1.4

24. Express $\frac{15}{16}$ as a decimal correct to 2 decimal places

(i) 0.74 (ii) 0.94 (iii) 0.84 (iv) 1.14 (v) 1.04

25. Express $\frac{16}{5}$ as a decimal correct to 2 decimal places

(i) 3.1 (ii) 3 (iii) 3.3 (iv) 3.4 (v) 3.2

26. Express $\frac{13}{19}$ as a decimal correct to 2 decimal places

(i) 0.68 (ii) 0.88 (iii) 0.58 (iv) 0.78 (v) 0.48

27. Express $\frac{1}{10}$ as a decimal correct to 1 decimal places

(i) -0.1 (ii) 0.3 (iii) 0 (iv) 0.1 (v) 0.2

28. Express $\frac{10}{7}$ as a decimal correct to 2 decimal places

(i) 1.43 (ii) 1.63 (iii) 1.33 (iv) 1.23 (v) 1.53

29. Express $\frac{2}{3}$ as a decimal correct to 3 decimal places

(i) 0.867 (ii) 0.567 (iii) 0.667 (iv) 0.767 (v) 0.467

30. Express $\frac{3}{10}$ as a decimal correct to 4 decimal places

(i) 0.1 (ii) 0.3 (iii) 0.2 (iv) 0.5 (v) 0.4

31. Express $\frac{91}{62}$ as a decimal correct to 1 decimal places

(i) 1.7 (ii) 1.6 (iii) 1.3 (iv) 1.5 (v) 1.4

32. Express $\frac{59}{41}$ as a decimal correct to 2 decimal places

- (i) 1.34 (ii) 1.54 (iii) 1.24 (iv) 1.44 (v) 1.64
-

33. Express $\frac{61}{52}$ as a decimal correct to 3 decimal places

- (i) 1.073 (ii) 1.373 (iii) 1.173 (iv) 0.973 (v) 1.273
-

34. Express $\frac{67}{70}$ as a decimal correct to 4 decimal places

- (i) 0.8571 (ii) 0.7571 (iii) 1.0571 (iv) 0.9571 (v) 1.1571
-

35. Express $\frac{51}{958}$ as a decimal correct to 3 decimal places

- (i) 0.153 (ii) 0.253 (iii) 0.053 (iv) -0.147 (v) -0.047
-

36. Express $\frac{7575}{2387}$ as a decimal correct to 4 decimal places

- (i) 3.2734 (ii) 2.9734 (iii) 3.1734 (iv) 3.0734 (v) 3.3734
-

Assignment Key

- 1) (ii)
- 2) (iii)
- 3) (iii)
- 4) (v)
- 5) (ii)
- 6) (i)
- 7) (ii)
- 8) (iii)
- 9) (iii)
- 10) (i)
- 11) (iv)
- 12) (v)
- 13) (iii)
- 14) (i)
- 15) (i)
- 16) (i)
- 17) (iii)
- 18) (iii)
- 19) (iv)
- 20) (iv)
- 21) (v)
- 22) (ii)
- 23) (ii)
- 24) (ii)
- 25) (v)
- 26) (i)
- 27) (iv)
- 28) (i)
- 29) (iii)
- 30) (ii)
- 31) (iv)
- 32) (iv)
- 33) (iii)
- 34) (iv)
- 35) (iii)
- 36) (iii)