EduSahara™ Assignment

Name : Rational Numbers and their Decimal Expansions

Chapter : Real Numbers

Grade : SSC Grade IX

1. Express $\frac{1}{6}$ as a decimal correct to 2 decimal places

   (i) 1.67 (ii) 0.27 (iii) 0.02 (iv) 0.17 (v) -0.03

2. Express $\frac{19}{4}$ as a decimal correct to 2 decimal places

   (i) 4.55 (ii) 4.85 (iii) 0.47 (iv) 47.5 (v) 4.75

3. Express $\frac{45}{34}$ as a decimal correct to 2 decimal places

   (i) 1.12 (ii) 13.24 (iii) 1.42 (iv) 0.13 (v) 1.32

4. Express $\frac{29}{37}$ as a decimal correct to 2 decimal places

   (i) 0.78 (ii) 0.58 (iii) 0.88 (iv) 7.84 (v) 0.08

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

   (i) 3 (ii) 0.3 (iii) 0.1 (iv) 0 (v) 0.4

6. Express $\frac{47}{100}$ as a decimal correct to 2 decimal places

   (i) 0.27 (ii) 0.57 (iii) 0.47 (iv) 4.7 (v) 0.05

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

   (i) 0.521 (ii) 0.221 (iii) 0.421 (iv) 0.042 (v) 4.21

8. Express $\frac{6457}{10000}$ as a decimal correct to 4 decimal places

   (i) 0.4457 (ii) 0.0646 (iii) 0.7457 (iv) 6.457 (v) 0.6457

9. 5.4 =

   (i) 540 (ii) $\frac{27}{500}$ (iii) $\frac{27}{50}$ (iv) 54 (v) $\frac{27}{5}$

10. 3.1 =

    (i) 310 (ii) $\frac{31}{10}$ (iii) $\frac{31}{100}$ (iv) 31 (v) $\frac{31}{1000}$

11. 9.71 =

(i) 971 (ii) $\frac{971}{10}$ (iii) $\frac{971}{1000}$ (iv) $\frac{971}{10000}$ (v) $\frac{971}{100}$

12. 10.476 =

(i) $\frac{2619}{25}$ (ii) $\frac{2619}{250}$ (iii) $\frac{2619}{2500}$ (iv) $\frac{5238}{5}$ (v) $\frac{2619}{25000}$

13. 3.2 =

(i) $\frac{16}{5}$ (ii) $\frac{4}{125}$ (iii) 32 (iv) 320 (v) $\frac{8}{25}$

14. 4.15 =

(i) $\frac{83}{2000}$ (ii) $\frac{83}{2}$ (iii) 415 (iv) $\frac{83}{20}$ (v) $\frac{83}{200}$

15. 2.90 =

(i) 29 (ii) $\frac{29}{10}$ (iii) 290 (iv) $\frac{29}{1000}$ (v) $\frac{29}{100}$

16. 5.603 =

(i) $\frac{5603}{100000}$ (ii) $\frac{5603}{10}$ (iii) $\frac{5603}{1000}$ (iv) $\frac{5603}{10000}$ (v) $\frac{5603}{100}$

17. Express $\frac{9}{5}$ as a decimal correct to 1 decimal places

(i) 1.9 (ii) 1.6 (iii) 1.8 (iv) 2 (v) 1.7

18. Express $\frac{4}{9}$ as a decimal correct to 2 decimal places

(i) 0.44 (ii) 0.34 (iii) 0.54 (iv) 0.24 (v) 0.64

19. Express $\frac{5}{7}$ as a decimal correct to 3 decimal places

(i) 0.814 (ii) 0.614 (iii) 0.714 (iv) 0.914 (v) 0.514

20. Express $\frac{7}{10}$ as a decimal correct to 4 decimal places

(i) 0.5 (ii) 0.6 (iii) 0.9 (iv) 0.7 (v) 0.8

21. Express $\frac{58}{27}$ as a decimal correct to 1 decimal places

(i) 2.3 (ii) 2.1 (iii) 2.2 (iv) 2 (v) 1.9

22. Express $\frac{46}{29}$ as a decimal correct to 2 decimal places

(i) 1.59 (ii) 1.69 (iii) 1.79 (iv) 1.39 (v) 1.49

23. Express $\frac{61}{91}$ as a decimal correct to 3 decimal places

(i) 0.67 (ii) 0.87 (iii) 0.47 (iv) 0.77 (v) 0.57

24. Express $\frac{57}{10}$ as a decimal correct to 4 decimal places

(i) 5.7 (ii) 5.9 (iii) 5.6 (iv) 5.8 (v) 5.5

25. Express $\frac{352}{717}$ as a decimal correct to 3 decimal places

(i) 0.391 (ii) 0.491 (iii) 0.291 (iv) 0.691 (v) 0.591

26. Express $\frac{1658}{3051}$ as a decimal correct to 4 decimal places

(i) 0.4434 (ii) 0.5434 (iii) 0.6434 (iv) 0.7434 (v) 0.3434

27. Find the period of the recurring decimal $30.\overline{740}$

(i) 4 (ii) 7400 (iii) 3 (iv) 740 (v) 74

28. Find the period of the recurring decimal 14.80952380952381...

(i) 6 (ii) 8095230 (iii) 7 (iv) 809523 (v) 80952

29. Find the periodicity of the recurring decimal $8.\overline{074}$

(i) 2 (ii) 74 (iii) 1 (iv) 3 (v) 4

30. Find the periodicity of the recurring decimal 22.44444444444444...

(i) -1 (ii) 4 (iii) 1 (iv) 0 (v) 2

31. The recurring part of the decimal $0.\overline{3}$ is

(i) 330 (ii) 3 (iii) 333 (iv) 0.3 (v) 33

32. The recurring part of the decimal 20.92592592592592... is

(i) 20.925 (ii) 925925 (iii) 9259925 (iv) 92592 (v) 925

33. Convert the non-terminating recurring decimal $12.\overline{4}$ to rational number

(i) $\frac{38}{3}$ (ii) $\frac{110}{9}$ (iii) 16 (iv) $\frac{112}{9}$ (v) $\frac{112}{11}$

34. Convert the non-terminating recurring decimal 0.33333333333333... to rational number

(i) 1 (ii) $\frac{1}{3}$ (iii) $\frac{1}{5}$ (iv) $(\frac{-1}{3})$

35. Convert the fraction $\frac{526}{21}$ to non-terminating recurring decimal

(i) $25.\overline{047619}$ (ii) $2.5\overline{047619}$ (iii) $2504.\overline{761904}$ (iv) $0.25\overline{047619}$ (v) $250.\overline{476190}$

36. Convert the fraction $\frac{1}{3}$ to non-terminating recurring decimal

(i) $0.0\overline{3}$ (ii) $3.\overline{3}$ (iii) $33.\overline{3}$ (iv) $0.\overline{3}$ (v) $0.\overline{0}$

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

(i) $\frac{1}{3}$ (ii) $\frac{5511}{20}$ (iii) $\frac{5491}{20}$ (iv) $\frac{5491}{10}$ (v) $\frac{2200}{160}$

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

(i) $\frac{5760}{160}$ (ii) $\frac{46}{63}$ (iii) $\frac{92}{9}$ (iv) $\frac{184}{153}$ (v) $\frac{1}{3}$

Assignment Key

1) (iv)	2) (v)	3) (v)	4) (i)	5) (ii)	6) (iii)
7) (iii)	8) (v)	9) (v)	10) (ii)	11) (v)	12) (ii)
13) (i)	14) (iv)	15) (ii)	16) (iii)	17) (iii)	18) (i)
19) (iii)	20) (iv)	21) (ii)	22) (i)	23) (i)	24) (i)
25) (ii)	26) (ii)	27) (iv)	28) (iv)	29) (iv)	30) (iii)
31) (ii)	32) (v)	33) (iv)	34) (ii)	35) (i)	36) (iv)
37) (i)	38) (i)				