EduSahara™ Assignment

Name : Rational Numbers and their Decimal Expansions

Chapter : Real Numbers

Grade : SSC Grade IX

1. Express $\frac{1}{5}$ as a decimal correct to 2 decimal places

   (i) 2 (ii) 0.02 (iii) 0 (iv) 0.2 (v) 0.3

2. Express $\frac{8}{3}$ as a decimal correct to 2 decimal places

   (i) 2.77 (ii) 26.67 (iii) 2.47 (iv) 0.27 (v) 2.67

3. Express $\frac{42}{29}$ as a decimal correct to 2 decimal places

   (i) 1.55 (ii) 0.14 (iii) 1.45 (iv) 14.48 (v) 1.25

4. Express $\frac{38}{69}$ as a decimal correct to 2 decimal places

   (i) 5.51 (ii) 0.06 (iii) 0.55 (iv) 0.35 (v) 0.65

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

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

6. Express $\frac{67}{100}$ as a decimal correct to 2 decimal places

   (i) 0.67 (ii) 0.07 (iii) 6.7 (iv) 0.77 (v) 0.47

7. Express $\frac{621}{1000}$ as a decimal correct to 3 decimal places

   (i) 6.21 (ii) 0.062 (iii) 0.421 (iv) 0.621 (v) 0.721

8. Express $\frac{1793}{10000}$ as a decimal correct to 4 decimal places

   (i) 0.0179 (ii) 0.2793 (iii) -0.0207 (iv) 0.1793 (v) 1.793

9. 10.9 =

   (i) $\frac{109}{10}$ (ii) 1090 (iii) $\frac{109}{1000}$ (iv) 109 (v) $\frac{109}{100}$

10. 4.5 =

    (i) $\frac{9}{200}$ (ii) $\frac{9}{2}$ (iii) $\frac{9}{20}$ (iv) 45 (v) 450

11. 11.37 =

(i) $\frac{1137}{10000}$ (ii) $\frac{1137}{1000}$ (iii) $\frac{1137}{100}$ (iv) $\frac{1137}{10}$ (v) 1137

12. 7.683 =

(i) $\frac{7683}{10}$ (ii) $\frac{7683}{10000}$ (iii) $\frac{7683}{100}$ (iv) $\frac{7683}{100000}$ (v) $\frac{7683}{1000}$

13. 6.8 =

(i) $\frac{17}{25}$ (ii) 68 (iii) $\frac{17}{250}$ (iv) $\frac{34}{5}$ (v) 680

14. 3.16 =

(i) $\frac{79}{250}$ (ii) $\frac{158}{5}$ (iii) $\frac{79}{25}$ (iv) 316 (v) $\frac{79}{2500}$

15. 17.67 =

(i) 1767 (ii) $\frac{1767}{10000}$ (iii) $\frac{1767}{100}$ (iv) $\frac{1767}{10}$ (v) $\frac{1767}{1000}$

16. 1.918 =

(i) $\frac{959}{5}$ (ii) $\frac{959}{5000}$ (iii) $\frac{959}{50}$ (iv) $\frac{959}{500}$ (v) $\frac{959}{50000}$

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

(i) 3.5 (ii) 3.1 (iii) 3.4 (iv) 3.3 (v) 3.2

18. Express $\frac{1}{3}$ as a decimal correct to 2 decimal places

(i) 0.53 (ii) 0.43 (iii) 0.23 (iv) 0.33 (v) 0.13

19. Express $\frac{7}{10}$ as a decimal correct to 3 decimal places

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

20. Express $\frac{3}{7}$ as a decimal correct to 4 decimal places

(i) 0.2286 (ii) 0.3286 (iii) 0.5286 (iv) 0.4286 (v) 0.6286

21. Express $\frac{92}{77}$ as a decimal correct to 1 decimal places

(i) 1.2 (ii) 1.3 (iii) 1.4 (iv) 1.1 (v) 1

22. Express $\frac{43}{67}$ as a decimal correct to 2 decimal places

(i) 0.64 (ii) 0.84 (iii) 0.74 (iv) 0.44 (v) 0.54

23. Express $\frac{80}{97}$ as a decimal correct to 3 decimal places

(i) 0.925 (ii) 0.625 (iii) 0.725 (iv) 1.025 (v) 0.825

24. Express $\frac{81}{79}$ as a decimal correct to 4 decimal places

(i) 0.9253 (ii) 1.0253 (iii) 1.1253 (iv) 0.8253 (v) 1.2253

25. Express $\frac{401}{316}$ as a decimal correct to 3 decimal places

(i) 1.369 (ii) 1.169 (iii) 1.269 (iv) 1.069 (v) 1.469

26. Express $\frac{5176}{7201}$ as a decimal correct to 4 decimal places

(i) 0.9188 (ii) 0.6188 (iii) 0.8188 (iv) 0.7188 (v) 0.5188

27. Find the period of the recurring decimal $2.\overline{407}$

(i) 40 (ii) 4 (iii) 3 (iv) 4070 (v) 407

28. Find the period of the recurring decimal 15.96296296296296...

(i) 962 (ii) 4 (iii) 96 (iv) 3 (v) 9620

29. Find the periodicity of the recurring decimal $12.\overline{761904}$

(i) 761904 (ii) 6 (iii) 5 (iv) 4 (v) 7

30. Find the periodicity of the recurring decimal 0.33333333333333...

(i) -1 (ii) 2 (iii) 3 (iv) 1 (v) 0

31. The recurring part of the decimal $18.\overline{296}$ is

(i) 296 (ii) 2962296 (iii) 29621 (iv) 296296 (v) 18.296

32. The recurring part of the decimal 8.11111111111111... is

(i) 111 (ii) 11 (iii) 8.1 (iv) 118 (v) 1

33. Convert the non-terminating recurring decimal $13.\overline{047619}$ to rational number

(i) $\frac{274}{23}$ (ii) $\frac{274}{19}$ (iii) $\frac{272}{21}$ (iv) $\frac{274}{21}$ (v) $\frac{92}{7}$

34. Convert the non-terminating recurring decimal 19.44444444444444... to rational number

(i) $\frac{175}{11}$ (ii) $\frac{59}{3}$ (iii) $\frac{175}{9}$ (iv) 25 (v) $\frac{173}{9}$

35. Convert the fraction $\frac{47}{9}$ to non-terminating recurring decimal

(i) $52.\overline{2}$ (ii) $0.05\overline{2}$ (iii) $5.\overline{2}$ (iv) $0.5\overline{2}$ (v) $522.\overline{2}$

36. Convert the fraction $\frac{473}{18}$ to non-terminating recurring decimal

(i) $2.62\overline{7}$ (ii) $2627.\overline{7}$ (iii) $262.\overline{7}$ (iv) $26.2\overline{7}$ (v) $0.262\overline{7}$

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

(i) $\frac{100}{9}$ (ii) $\frac{54}{1}$ (iii) $\frac{28}{1}$ (iv) $\frac{4320}{160}$ (v) $\frac{1760}{40}$

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

(i) $\frac{3672}{16}$ (ii) $\frac{179}{63}$ (iii) $\frac{179}{90}$ (iv) $\frac{179}{9}$ (v) $\frac{301}{18}$

Assignment Key

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