EduSahara™ Assignment

Name : Rational Numbers and their Decimal Expansions

Chapter : Real Numbers

Grade : SSC Grade IX

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1. Express $\frac{7}{8}$ as a decimal correct to 2 decimal places

   (i) 8.75 (ii) 0.09 (iii) 0.88 (iv) 0.97 (v) 0.68

2. Express $\frac{10}{13}$ as a decimal correct to 2 decimal places

   (i) 7.69 (ii) 0.77 (iii) 0.57 (iv) 0.87 (v) 0.08

3. Express $\frac{36}{35}$ as a decimal correct to 2 decimal places

   (i) 0.1 (ii) 1.03 (iii) 10.29 (iv) 0.83 (v) 1.13

4. Express $\frac{3}{5}$ as a decimal correct to 2 decimal places

   (i) 0.4 (ii) 0.6 (iii) 0.06 (iv) 6 (v) 0.7

5. Express $\frac{9}{10}$ as a decimal correct to 1 decimal places

   (i) 0.1 (ii) 1 (iii) 0.7 (iv) 9 (v) 0.9

6. Express $\frac{83}{100}$ as a decimal correct to 2 decimal places

   (i) 8.3 (ii) 0.08 (iii) 0.83 (iv) 0.63 (v) 0.93

7. Express $\frac{309}{1000}$ as a decimal correct to 3 decimal places

   (i) 0.409 (ii) 0.309 (iii) 0.031 (iv) 3.09 (v) 0.109

8. Express $\frac{4983}{10000}$ as a decimal correct to 4 decimal places

   (i) 0.5983 (ii) 0.2983 (iii) 4.983 (iv) 0.4983 (v) 0.0498

9. 5.2 =

   (i) 520 (ii) $\frac{13}{250}$ (iii) 52 (iv) $\frac{26}{5}$ (v) $\frac{13}{25}$

10. 1.3 =

    (i) $\frac{13}{10}$ (ii) 13 (iii) 130 (iv) $\frac{13}{1000}$ (v) $\frac{13}{100}$

11. 16.73 =

(i) $\frac{1673}{10000}$ (ii) $\frac{1673}{10}$ (iii) 1673 (iv) $\frac{1673}{100}$ (v) $\frac{1673}{1000}$

12. 1.399 =

(i) $\frac{1399}{100}$ (ii) $\frac{1399}{10000}$ (iii) $\frac{1399}{100000}$ (iv) $\frac{1399}{1000}$ (v) $\frac{1399}{10}$

13. 4.2 =

(i) $\frac{21}{5}$ (ii) $\frac{21}{500}$ (iii) 42 (iv) $\frac{21}{50}$ (v) 420

14. 8.14 =

(i) $\frac{407}{5000}$ (ii) $\frac{407}{50}$ (iii) $\frac{407}{5}$ (iv) 814 (v) $\frac{407}{500}$

15. 14.59 =

(i) $\frac{1459}{1000}$ (ii) $\frac{1459}{10}$ (iii) $\frac{1459}{100}$ (iv) 1459 (v) $\frac{1459}{10000}$

16. 3.281 =

(i) $\frac{3281}{100000}$ (ii) $\frac{3281}{1000}$ (iii) $\frac{3281}{100}$ (iv) $\frac{3281}{10000}$ (v) $\frac{3281}{10}$

17. Express $\frac{8}{9}$ as a decimal correct to 1 decimal places

(i) 0.8 (ii) 0.7 (iii) 0.9 (iv) 1.1 (v) 1

18. Express $\frac{1}{10}$ as a decimal correct to 2 decimal places

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

19. Express $\frac{8}{5}$ as a decimal correct to 3 decimal places

(i) 1.5 (ii) 1.4 (iii) 1.8 (iv) 1.7 (v) 1.6

20. Express $\frac{6}{5}$ as a decimal correct to 4 decimal places

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

21. Express $\frac{98}{65}$ as a decimal correct to 1 decimal places

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

22. Express $\frac{13}{68}$ as a decimal correct to 2 decimal places

(i) 0.19 (ii) 0.39 (iii) 0.09 (iv) -0.01 (v) 0.29

23. Express $\frac{53}{49}$ as a decimal correct to 3 decimal places

(i) 1.082 (ii) 0.882 (iii) 0.982 (iv) 1.282 (v) 1.182

24. Express $\frac{53}{60}$ as a decimal correct to 4 decimal places

(i) 0.6833 (ii) 0.8833 (iii) 0.7833 (iv) 0.9833 (v) 1.0833

25. Express $\frac{101}{525}$ as a decimal correct to 3 decimal places

(i) 0.392 (ii) 0.092 (iii) -0.008 (iv) 0.192 (v) 0.292

26. Express $\frac{6385}{2209}$ as a decimal correct to 4 decimal places

(i) 2.6904 (ii) 2.9904 (iii) 2.8904 (iv) 3.0904 (v) 2.7904

27. Find the period of the recurring decimal $1.\overline{7}$

(i) 2 (ii) 70 (iii) 0 (iv) 1 (v) 7

28. Find the period of the recurring decimal 24.77777777777777...

(i) 1 (ii) 70 (iii) 2 (iv) 7 (v) 0

29. Find the periodicity of the recurring decimal $6.\overline{619047}$

(i) 6 (ii) 4 (iii) 7 (iv) 5 (v) 619047

30. Find the periodicity of the recurring decimal 22.11111111111111...

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

31. The recurring part of the decimal $19.\overline{518}$ is

(i) 51851 (ii) 518518 (iii) 5185518 (iv) 518 (v) 19.518

32. The recurring part of the decimal 29.55555555555555... is

(i) 5 (ii) 552 (iii) 29.5 (iv) 55 (v) 555

33. Convert the non-terminating recurring decimal $27.\overline{1}$ to rational number

(i) $\frac{82}{3}$ (ii) $\frac{244}{11}$ (iii) $\frac{242}{9}$ (iv) $\frac{244}{9}$ (v) $\frac{244}{7}$

34. Convert the non-terminating recurring decimal 29.88888888888888... to rational number

(i) $\frac{269}{7}$ (ii) $\frac{89}{3}$ (iii) $\frac{269}{11}$ (iv) $\frac{269}{9}$ (v) $\frac{271}{9}$

35. Convert the fraction $\frac{121}{9}$ to non-terminating recurring decimal

(i) $13.\overline{4}$ (ii) $1344.\overline{4}$ (iii) $1.3\overline{4}$ (iv) $0.13\overline{4}$ (v) $134.\overline{4}$

36. Convert the fraction $\frac{596}{21}$ to non-terminating recurring decimal

(i) $28.\overline{380952}$ (ii) $2.8\overline{380952}$ (iii) $0.28\overline{380952}$ (iv) $2838.\overline{095238}$ (v) $283.\overline{809523}$

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

(i) $\frac{277}{18}$ (ii) $\frac{3240}{256}$ (iii) $\frac{3072}{64}$ (iv) $\frac{437}{32}$ (v) $\frac{405}{16}$

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

(i) $\frac{3240}{40}$ (ii) $\frac{1}{3}$ (iii) $\frac{139}{9}$ (iv) $\frac{139}{180}$ (v) $\frac{278}{135}$

Assignment Key

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

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