EduSahara™ Assignment

Name : Rational Numbers and their Decimal Expansions

Chapter : Real Numbers

Grade : SSC Grade IX

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

   (i) 1.05 (ii) 12.5 (iii) 0.12 (iv) 1.35 (v) 1.25

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

   (i) 0.17 (ii) 1.77 (iii) 1.67 (iv) 1.47 (v) 16.67

3. Express $\frac{44}{21}$ as a decimal correct to 2 decimal places

   (i) 0.21 (ii) 1.9 (iii) 2.2 (iv) 20.95 (v) 2.1

4. Express $\frac{23}{49}$ as a decimal correct to 2 decimal places

   (i) 0.05 (ii) 0.47 (iii) 4.69 (iv) 0.57 (v) 0.27

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

   (i) 0.1 (ii) 1 (iii) 0.2 (iv) -0.1 (v) 0

6. Express $\frac{93}{100}$ as a decimal correct to 2 decimal places

   (i) 0.93 (ii) 0.09 (iii) 0.73 (iv) 1.03 (v) 9.3

7. Express $\frac{669}{1000}$ as a decimal correct to 3 decimal places

   (i) 0.469 (ii) 0.769 (iii) 6.69 (iv) 0.067 (v) 0.669

8. Express $\frac{8317}{10000}$ as a decimal correct to 4 decimal places

   (i) 0.9317 (ii) 0.6317 (iii) 0.0832 (iv) 0.8317 (v) 8.317

9. 10.4 =

   (i) 1040 (ii) $\frac{26}{25}$ (iii) $\frac{13}{125}$ (iv) $\frac{52}{5}$ (v) 104

10. 3.4 =

    (i) $\frac{17}{5}$ (ii) 340 (iii) $\frac{17}{50}$ (iv) 34 (v) $\frac{17}{500}$

11. 16.91 =

(i) 1691 (ii) $\frac{1691}{100}$ (iii) $\frac{1691}{1000}$ (iv) $\frac{1691}{10}$ (v) $\frac{1691}{10000}$

12. 3.328 =

(i) $\frac{1664}{5}$ (ii) $\frac{416}{125}$ (iii) $\frac{208}{625}$ (iv) $\frac{832}{25}$ (v) $\frac{104}{3125}$

13. 3.7 =

(i) 37 (ii) $\frac{37}{1000}$ (iii) $\frac{37}{10}$ (iv) 370 (v) $\frac{37}{100}$

14. 3.13 =

(i) $\frac{313}{100}$ (ii) $\frac{313}{10000}$ (iii) 313 (iv) $\frac{313}{1000}$ (v) $\frac{313}{10}$

15. 4.65 =

(i) 465 (ii) $\frac{93}{2}$ (iii) $\frac{93}{200}$ (iv) $\frac{93}{20}$ (v) $\frac{93}{2000}$

16. 8.756 =

(i) $\frac{4378}{5}$ (ii) $\frac{2189}{25000}$ (iii) $\frac{2189}{250}$ (iv) $\frac{2189}{2500}$ (v) $\frac{2189}{25}$

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

(i) 1.3 (ii) 1.2 (iii) 0.9 (iv) 1 (v) 1.1

18. Express $\frac{3}{7}$ as a decimal correct to 2 decimal places

(i) 0.23 (ii) 0.63 (iii) 0.43 (iv) 0.53 (v) 0.33

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

(i) 0.575 (ii) 0.475 (iii) 0.175 (iv) 0.275 (v) 0.375

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

(i) 0.3714 (ii) 0.6714 (iii) 0.5714 (iv) 0.7714 (v) 0.4714

21. Express $\frac{41}{15}$ as a decimal correct to 1 decimal places

(i) 2.6 (ii) 2.9 (iii) 2.5 (iv) 2.7 (v) 2.8

22. Express $\frac{14}{89}$ as a decimal correct to 2 decimal places

(i) 0.06 (ii) 0.26 (iii) -0.04 (iv) 0.36 (v) 0.16

23. Express $\frac{67}{13}$ as a decimal correct to 3 decimal places

(i) 4.954 (ii) 5.354 (iii) 5.054 (iv) 5.254 (v) 5.154

24. Express $\frac{59}{74}$ as a decimal correct to 4 decimal places

(i) 0.7973 (ii) 0.6973 (iii) 0.8973 (iv) 0.5973 (v) 0.9973

25. Express $\frac{827}{16}$ as a decimal correct to 3 decimal places

(i) 51.587 (ii) 51.788 (iii) 51.688 (iv) 51.487 (v) 51.888

26. Express $\frac{8105}{2339}$ as a decimal correct to 4 decimal places

(i) 3.3652 (ii) 3.5652 (iii) 3.2652 (iv) 3.6652 (v) 3.4652

27. Find the period of the recurring decimal $19.\overline{7}$

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

28. Find the period of the recurring decimal 5.05555555555555...

(i) 50 (ii) 0 (iii) 1 (iv) 5 (v) 2

29. Find the periodicity of the recurring decimal $17.\overline{5}$

(i) 1 (ii) 2 (iii) 0 (iv) 5 (v) -1

30. Find the periodicity of the recurring decimal 14.11111111111111...

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

31. The recurring part of the decimal $5.\overline{259}$ is

(i) 25925 (ii) 259259 (iii) 5.259 (iv) 259 (v) 2592259

32. The recurring part of the decimal 4.77777777777777... is

(i) 777 (ii) 7 (iii) 774 (iv) 4.7 (v) 77

33. Convert the non-terminating recurring decimal $21.\overline{809523}$ to rational number

(i) $\frac{458}{23}$ (ii) $\frac{458}{19}$ (iii) $\frac{152}{7}$ (iv) $\frac{460}{21}$ (v) $\frac{458}{21}$

34. Convert the non-terminating recurring decimal 22.04761904761904... to rational number

(i) $\frac{461}{21}$ (ii) $\frac{463}{23}$ (iii) $\frac{463}{21}$ (iv) $\frac{155}{7}$ (v) $\frac{463}{19}$

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

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

36. Convert the fraction $\frac{146}{9}$ to non-terminating recurring decimal

(i) $16.\overline{2}$ (ii) $0.16\overline{2}$ (iii) $162.\overline{2}$ (iv) $1.6\overline{2}$ (v) $1622.\overline{2}$

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

(i) $\frac{495}{8}$ (ii) $\frac{185}{9}$ (iii) $\frac{4896}{32}$ (iv) $\frac{2475}{80}$ (v) $\frac{511}{16}$

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

(i) $\frac{1}{3}$ (ii) $\frac{1}{54}$ (iii) $\frac{3420}{32}$ (iv) $\frac{2}{33}$

Assignment Key

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

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