EduSahara™ Assignment

Name : Rational Numbers and their Decimal Expansions

Chapter : Real Numbers

Grade : CBSE Grade X

1. The recurring part of the decimal $19.\overline{7}$ is

   (i) 77 (ii) 777 (iii) 7 (iv) 771 (v) 19.7

2. The recurring part of the decimal 11.88888888888888... is

   (i) 11.8 (ii) 881 (iii) 888 (iv) 8 (v) 88

3. Convert the non-terminating recurring decimal $24.\overline{619047}$ to rational number

   (i) $\frac{517}{23}$ (ii) $\frac{515}{21}$ (iii) $\frac{517}{19}$ (iv) $\frac{173}{7}$ (v) $\frac{517}{21}$

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

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

5. Convert the fraction $\frac{173}{18}$ to non-terminating recurring decimal

   (i) $961.\overline{1}$ (ii) $0.96\overline{1}$ (iii) $96.\overline{1}$ (iv) $9.6\overline{1}$ (v) $0.096\overline{1}$

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

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

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

   (i) $\frac{4400}{80}$ (ii) $\frac{349}{18}$ (iii) $\frac{110}{1}$ (iv) $\frac{56}{1}$ (v) $\frac{3458}{100}$

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

   (i) $\frac{137}{90}$ (ii) $\frac{3920}{128}$ (iii) $\frac{137}{9}$ (iv) $\frac{137}{126}$ (v) $\frac{275}{18}$

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

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

10. Express $\frac{91}{100}$ as a decimal correct to 2 decimal places

    (i) 0.71 (ii) 0.09 (iii) 0.91 (iv) 1.01 (v) 9.1

11. Express $\frac{829}{1000}$ as a decimal correct to 3 decimal places

(i) 0.083 (ii) 8.29 (iii) 0.929 (iv) 0.629 (v) 0.829

12. Express $\frac{4863}{10000}$ as a decimal correct to 4 decimal places

(i) 4.863 (ii) 0.2863 (iii) 0.0486 (iv) 0.5863 (v) 0.4863

13. 6.4 =

(i) $\frac{8}{125}$ (ii) 64 (iii) $\frac{32}{5}$ (iv) $\frac{16}{25}$ (v) 640

14. 2.8 =

(i) 28 (ii) 280 (iii) $\frac{14}{5}$ (iv) $\frac{7}{25}$ (v) $\frac{7}{250}$

15. 20.59 =

(i) $\frac{2059}{10000}$ (ii) $\frac{2059}{10}$ (iii) $\frac{2059}{1000}$ (iv) $\frac{2059}{100}$ (v) 2059

16. 6.451 =

(i) $\frac{6451}{100}$ (ii) $\frac{6451}{10000}$ (iii) $\frac{6451}{100000}$ (iv) $\frac{6451}{10}$ (v) $\frac{6451}{1000}$

17. 5.12 =

(i) 512 (ii) $\frac{256}{5}$ (iii) $\frac{32}{625}$ (iv) $\frac{128}{25}$ (v) $\frac{64}{125}$

18. 10.47 =

(i) 1047 (ii) $\frac{1047}{1000}$ (iii) $\frac{1047}{10000}$ (iv) $\frac{1047}{10}$ (v) $\frac{1047}{100}$

Assignment Key

1) (iii)	2) (iv)	3) (v)	4) (ii)	5) (iv)	6) (iv)
7) (ii)	8) (ii)	9) (ii)	10) (iii)	11) (v)	12) (v)
13) (iii)	14) (iii)	15) (iv)	16) (v)	17) (iv)	18) (v)