EduSahara™ Assignment

Name : Rational Numbers and their Decimal Expansions

Chapter : Real Numbers

Grade : CBSE Grade X

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1. The recurring part of the decimal $25.\overline{518}$ is

   (i) 51852 (ii) 25.518 (iii) 518518 (iv) 5185518 (v) 518

2. The recurring part of the decimal 5.22222222222222... is

   (i) 5.2 (ii) 22 (iii) 2 (iv) 225 (v) 222

3. Convert the non-terminating recurring decimal $3.\overline{5}$ to rational number

   (i) $\frac{34}{9}$ (ii) $\frac{32}{7}$ (iii) $\frac{32}{11}$ (iv) $\frac{10}{3}$ (v) $\frac{32}{9}$

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

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

5. Convert the fraction $\frac{25}{9}$ to non-terminating recurring decimal

   (i) $0.02\overline{7}$ (ii) $2.\overline{7}$ (iii) $277.\overline{7}$ (iv) $0.2\overline{7}$ (v) $27.\overline{7}$

6. Convert the fraction $\frac{226}{9}$ to non-terminating recurring decimal

   (i) $2.5\overline{1}$ (ii) $0.25\overline{1}$ (iii) $251.\overline{1}$ (iv) $2511.\overline{1}$ (v) $25.\overline{1}$

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

   (i) $\frac{287}{2}$ (ii) $\frac{4760}{320}$ (iii) $\frac{110}{9}$ (iv) $\frac{285}{1}$ (v) $\frac{4560}{32}$

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

   (i) $\frac{3168}{40}$ (ii) $\frac{214}{99}$ (iii) $\frac{373}{18}$ (iv) $\frac{107}{9}$ (v) $\frac{107}{171}$

9. Express $\frac{7}{10}$ as a decimal correct to 1 decimal places

   (i) 7 (ii) 0.8 (iii) 0.5 (iv) 0.1 (v) 0.7

10. Express $\frac{79}{100}$ as a decimal correct to 2 decimal places

    (i) 7.9 (ii) 0.89 (iii) 0.08 (iv) 0.79 (v) 0.59

11. Express $\frac{543}{1000}$ as a decimal correct to 3 decimal places

(i) 0.343 (ii) 0.543 (iii) 5.43 (iv) 0.643 (v) 0.054

12. Express $\frac{4011}{10000}$ as a decimal correct to 4 decimal places

(i) 0.5011 (ii) 0.2011 (iii) 4.011 (iv) 0.4011 (v) 0.0401

13. 8.8 =

(i) $\frac{22}{25}$ (ii) $\frac{44}{5}$ (iii) $\frac{11}{125}$ (iv) 88 (v) 880

14. 1.8 =

(i) $\frac{9}{500}$ (ii) $\frac{9}{5}$ (iii) 180 (iv) $\frac{9}{50}$ (v) 18

15. 4.67 =

(i) $\frac{467}{10000}$ (ii) $\frac{467}{100}$ (iii) $\frac{467}{10}$ (iv) 467 (v) $\frac{467}{1000}$

16. 9.936 =

(i) $\frac{1242}{125}$ (ii) $\frac{4968}{5}$ (iii) $\frac{2484}{25}$ (iv) $\frac{621}{625}$ (v) $\frac{621}{6250}$

17. 10.15 =

(i) 1015 (ii) $\frac{203}{2000}$ (iii) $\frac{203}{20}$ (iv) $\frac{203}{2}$ (v) $\frac{203}{200}$

18. 6.85 =

(i) $\frac{137}{2000}$ (ii) $\frac{137}{20}$ (iii) $\frac{137}{200}$ (iv) 685 (v) $\frac{137}{2}$

Assignment Key

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

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