

EduSahara™ Learning Center Assignment**Grade : Class X, CBSE****Chapter : Real Numbers****Name : Rational Numbers and their Decimal Expansions**

1. The recurring part of the decimal $13.\overline{5}$ is

- (i) 5 (ii) 551 (iii) 13.5 (iv) 555 (v) 55
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2. The recurring part of the decimal $12.62962962962962\dots$ is

- (i) 6296629 (ii) 629 (iii) 629629 (iv) 12.629 (v) 62961
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3. Convert the non-terminating recurring decimal $12.\overline{481}$ to rational number

- (i) $\frac{337}{25}$ (ii) $\frac{113}{9}$ (iii) $\frac{337}{27}$ (iv) $\frac{337}{29}$ (v) $\frac{335}{27}$
-

4. Convert the non-terminating recurring decimal $8.72222222222222\dots$ to rational number

- (i) $\frac{157}{16}$ (ii) $\frac{155}{18}$ (iii) $\frac{53}{6}$ (iv) $\frac{157}{18}$ (v) $\frac{157}{20}$
-

5. Convert the fraction $\frac{151}{9}$ to non-terminating recurring decimal

- (i) $167.\overline{7}$ (ii) $0.16\overline{7}$ (iii) $1.6\overline{7}$ (iv) $16.\overline{7}$ (v) $1677.\overline{7}$
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6. Convert the fraction $\frac{271}{21}$ to non-terminating recurring decimal

- (i) $12.\overline{904761}$ (ii) $1290.\overline{476190}$ (iii) $0.12\overline{904761}$ (iv) $12.\overline{904761}$ (v) $129.\overline{047619}$
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7. Which of the following fractions converts to a non-terminating recurring decimal?

- (i) $\frac{325}{18}$ (ii) $\frac{1363}{32}$ (iii) $\frac{1331}{32}$ (iv) $\frac{1950}{128}$ (v) $\frac{1331}{16}$
-

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

- (i) $\frac{101}{9}$ (ii) $\frac{3456}{32}$ (iii) $\frac{173}{9}$ (iv) $\frac{173}{153}$ (v) $\frac{346}{153}$
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9. Express $\frac{7}{10}$ as a decimal correct to 1 decimal places

- (i) 0.8 (ii) 0.7 (iii) 0.9 (iv) 0.5 (v) 0.6
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10. Express $\frac{27}{100}$ as a decimal correct to 2 decimal places

(i) 0.47 (ii) 0.17 (iii) 0.37 (iv) 0.27 (v) 0.07

11. Express $\frac{987}{1000}$ as a decimal correct to 3 decimal places

(i) 0.787 (ii) 1.087 (iii) 0.887 (iv) 0.987 (v) 1.187

12. Express $\frac{8457}{10000}$ as a decimal correct to 4 decimal places

(i) 0.9457 (ii) 0.6457 (iii) 0.8457 (iv) 1.0457 (v) 0.7457

13. $7.1 =$

(i) $\frac{71}{100}$ (ii) $\frac{71}{10}$ (iii) 71 (iv) 710 (v) $\frac{71}{1000}$

14. $9.1 =$

(i) $\frac{91}{1000}$ (ii) $\frac{91}{100}$ (iii) 91 (iv) 910 (v) $\frac{91}{10}$

15. $3.83 =$

(i) $\frac{383}{10}$ (ii) $\frac{383}{10000}$ (iii) $\frac{383}{100}$ (iv) $\frac{383}{1000}$ (v) 383

16. $2.709 =$

(i) $\frac{2709}{10}$ (ii) $\frac{2709}{100000}$ (iii) $\frac{2709}{1000}$ (iv) $\frac{2709}{10000}$ (v) $\frac{2709}{100}$

17. $4.18 =$

(i) $\frac{209}{500}$ (ii) $\frac{209}{5000}$ (iii) 418 (iv) $\frac{209}{50}$ (v) $\frac{209}{5}$

18. $6.74 =$

(i) $\frac{337}{5000}$ (ii) $\frac{337}{5}$ (iii) 674 (iv) $\frac{337}{50}$ (v) $\frac{337}{500}$

Assignment Key

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