

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

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

(i) 0.8 (ii) 0.6 (iii) 0.7 (iv) 0.9 (v) 0.5

2. Express $\frac{19}{100}$ as a decimal correct to 2 decimal places

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

3. Express $\frac{257}{1000}$ as a decimal correct to 3 decimal places

(i) 0.157 (ii) 0.357 (iii) 0.457 (iv) 0.257 (v) 0.057

4. Express $\frac{4269}{10000}$ as a decimal correct to 4 decimal places

(i) 0.5269 (ii) 0.6269 (iii) 0.4269 (iv) 0.3269 (v) 0.2269

5. $7.7 =$

(i) $\frac{77}{1000}$ (ii) 77 (iii) 770 (iv) $\frac{77}{100}$ (v) $\frac{77}{10}$

6. $9.8 =$

(i) $\frac{49}{500}$ (ii) $\frac{49}{50}$ (iii) 98 (iv) $\frac{49}{5}$ (v) 980

7. $20.64 =$

(i) $\frac{516}{25}$ (ii) $\frac{1032}{5}$ (iii) $\frac{258}{125}$ (iv) $\frac{129}{625}$ (v) 2064

8. $1.889 =$

(i) $\frac{1889}{100000}$ (ii) $\frac{1889}{10}$ (iii) $\frac{1889}{10000}$ (iv) $\frac{1889}{100}$ (v) $\frac{1889}{1000}$

9. $8.7 =$

(i) $\frac{87}{1000}$ (ii) $\frac{87}{10}$ (iii) $\frac{87}{100}$ (iv) 870 (v) 87

10. $5.16 =$

(i) $\frac{129}{2500}$ (ii) 516 (iii) $\frac{258}{5}$ (iv) $\frac{129}{250}$ (v) $\frac{129}{25}$

11. $8.33 =$

(i) $\frac{833}{1000}$ (ii) $\frac{833}{10000}$ (iii) 833 (iv) $\frac{833}{10}$ (v) $\frac{833}{100}$

1000

10000

10

100

12. $5.480 =$

- (i) $\frac{274}{5}$ (ii) $\frac{137}{2500}$ (iii) $\frac{137}{25}$ (iv) $\frac{137}{250}$ (v) 548
-

13. Express $\frac{9}{4}$ as a decimal correct to 1 decimal places

- (i) 2 (ii) 2.4 (iii) 2.1 (iv) 2.5 (v) 2.2
-

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

- (i) 3.3 (ii) 3.5 (iii) 3.4 (iv) 3.6 (v) 3.7
-

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

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

16. Express $\frac{6}{7}$ as a decimal correct to 4 decimal places

- (i) 0.8571 (ii) 0.9571 (iii) 0.7571 (iv) 1.0571 (v) 0.6571
-

17. Express $\frac{91}{96}$ as a decimal correct to 1 decimal places

- (i) 0.9 (ii) 1 (iii) 1.1 (iv) 0.7 (v) 0.8
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18. Find the period of the recurring decimal $14.\overline{5}$

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

19. Find the period of the recurring decimal $18.55555555555555...$

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

20. Find the periodicity of the recurring decimal $24.\overline{2}$

- (i) 2 (ii) -1 (iii) 0 (iv) 1
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21. Find the periodicity of the recurring decimal $4.11111111111111...$

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

22. The recurring part of the decimal $26.\overline{8}$ is

- (i) 8 (ii) 882 (iii) 26.8 (iv) 88 (v) 888
-

23. The recurring part of the decimal $0.33333333333333...$ is

- (i) 330 (ii) 333 (iii) 3 (iv) 33 (v) 0.3
-

24. Convert the non-terminating recurring decimal $18.\overline{4}$ to rational number

- (i) $\frac{166}{11}$ (ii) $\frac{166}{9}$ (iii) $\frac{164}{9}$ (iv) $\frac{166}{7}$ (v) $\frac{56}{3}$
-

25. Convert the non-terminating recurring decimal 20.38095238095237... to rational number

- (i) $\frac{428}{23}$ (ii) $\frac{428}{21}$ (iii) $\frac{428}{19}$ (iv) $\frac{430}{21}$ (v) $\frac{142}{7}$
-

26. Convert the fraction $\frac{229}{27}$ to non-terminating recurring decimal

- (i) $848.\overline{148}$ (ii) $0.08\overline{481}$ (iii) $84.\overline{814}$ (iv) $8.\overline{481}$ (v) $0.8\overline{481}$
-

27. Convert the fraction $\frac{224}{9}$ to non-terminating recurring decimal

- (i) $2488.\overline{8}$ (ii) $24.\overline{8}$ (iii) $0.24\overline{8}$ (iv) $2.4\overline{8}$ (v) $248.\overline{8}$
-

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

- (i) $\frac{367}{10}$ (ii) $\frac{313}{18}$ (iii) $\frac{6156}{320}$ (iv) $\frac{357}{5}$ (v) $\frac{2856}{80}$
-

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

- (i) $\frac{160}{171}$ (ii) $\frac{2880}{20}$ (iii) $\frac{32}{9}$ (iv) $\frac{1}{3}$ (v) $\frac{160}{9}$
-

30. Which of the following is an irrational number?

- (i) (-8) (ii) $\frac{8}{26}$ (iii) $\sqrt[3]{52}$ (iv) 14.7407 (v) 6
-

31. Which of the following is a rational number?

- (i) $\frac{11}{25}$ (ii) $\sqrt[3]{61}$ (iii) $\sqrt[3]{23}$ (iv) $\sqrt[3]{43}$ (v) $\sqrt{34}$
-

32. Which of the following is a decimal fraction?

- (i) $13\frac{2}{13}$ (ii) $\frac{5}{10}$ (iii) $14\frac{1}{2}$ (iv) $\frac{1}{4}$ (v) $\frac{20}{9}$
-

33. Which of the following is a decimal fraction?

- (i) $\frac{9}{100}$ (ii) $\frac{9}{16}$ (iii) $11\frac{11}{16}$ (iv) $6\frac{13}{16}$ (v) $\frac{17}{2}$
-

34. Which of the following is a decimal fraction?

- (i) $\frac{5}{6}$ (ii) $\frac{2}{1000}$ (iii) $\frac{17}{15}$ (iv) $9\frac{5}{7}$ (v) $7\frac{5}{12}$
-

35. Which of the following is a decimal fraction?

- (i) $\frac{2}{10000}$ (ii) $\frac{14}{9}$ (iii) $20\frac{17}{19}$ (iv) $10\frac{12}{17}$ (v) $\frac{11}{14}$
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Assignment Key

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