

EduSahara™ Learning Center Assignment**Grade : Class VIII, SSC****Chapter : Rational Numbers****Name : Rational Numbers and their Decimal Representation****Licensed To : Teachers and Students for non-commercial use**

1. Express $\frac{9}{5}$ as a decimal correct to 1 decimal places

(i) 1.8 (ii) 2 (iii) 1.7 (iv) 1.6 (v) 1.9

2. Express $\frac{5}{7}$ as a decimal correct to 2 decimal places

(i) 0.61 (ii) 0.51 (iii) 0.81 (iv) 0.91 (v) 0.71

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

(i) 1.3 (ii) 1.7 (iii) 1.4 (iv) 1.6 (v) 1.5

4. Express $\frac{47}{24}$ as a decimal correct to 1 decimal places

(i) 1.8 (ii) 1.9 (iii) 2 (iv) 2.1 (v) 2.2

5. Express $\frac{677}{820}$ as a decimal correct to 3 decimal places

(i) 1.026 (ii) 0.626 (iii) 0.826 (iv) 0.926 (v) 0.726

6. Express $\frac{3758}{3375}$ as a decimal correct to 4 decimal places

(i) 0.9135 (ii) 1.3135 (iii) 1.0135 (iv) 1.2135 (v) 1.1135

7. Find the period of the recurring decimal $7.\overline{1}$

(i) 1 (ii) 10 (iii) 0 (iv) 2

8. Find the period of the recurring decimal $26.11111111111111\dots$

(i) 0 (ii) 10 (iii) 2 (iv) 1

9. Find the periodicity of the recurring decimal $2.\overline{185}$

- (i) 185 (ii) 4 (iii) 3 (iv) 2 (v) 1
-

10. Find the periodicity of the recurring decimal $9.76190476190476\dots$

- (i) 4 (ii) 6 (iii) 761904 (iv) 7 (v) 5
-

11. The recurring part of the decimal $30.\overline{5}$ is

- (i) 553 (ii) 30.5 (iii) 55 (iv) 5 (v) 555
-

12. The recurring part of the decimal $8.94444444444444\dots$ is

- (i) 448 (ii) 494 (iii) 44 (iv) 8.94 (v) 4
-

13. Convert the non-terminating recurring decimal $6.\overline{1}$ to rational number

- (i) $\frac{53}{9}$ (ii) 5 (iii) $\frac{55}{7}$ (iv) $\frac{55}{9}$ (v) $\frac{19}{3}$
-

14. Convert the non-terminating recurring decimal $27.29629629629629\dots$ to rational number

- (i) $\frac{737}{29}$ (ii) $\frac{739}{27}$ (iii) $\frac{737}{27}$ (iv) $\frac{737}{25}$ (v) $\frac{245}{9}$
-

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

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

16. Convert the fraction $\frac{445}{18}$ to non-terminating recurring decimal

- (i) $24.7\overline{2}$ (ii) $2472.\overline{2}$ (iii) $2.47\overline{2}$ (iv) $247.\overline{2}$ (v) $0.\overline{2}$
-

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

- (i) $\frac{153}{10}$ (ii) $\frac{1920}{128}$ (iii) $\frac{2288}{160}$ (iv) $\frac{143}{5}$ (v) $\frac{1}{3}$
-

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

- (i) $\frac{2160}{40}$ (ii) $\frac{251}{18}$ (iii) $\frac{251}{108}$ (iv) $\frac{251}{216}$ (v) $\frac{160}{9}$
-

19. Which of the following is an irrational number?

- (i) 15.4444 (ii) $\sqrt{27}$ (iii) $\frac{8}{10}$ (iv) 1 (v) 18
-

20. Which of the following is a rational number?

- (i) $\frac{2}{3}$ (ii) $\sqrt{22}$ (iii) $\sqrt[3]{39}$ (iv) $\sqrt[3]{68}$ (v) $\sqrt{72}$
-

21. Express $\frac{7}{8}$ as a decimal correct to 2 decimal places

- (i) 0.88 (ii) 0.68 (iii) 0.97 (iv) 0.78 (v) 1.07
-

22. Express $\frac{19}{7}$ as a decimal correct to 2 decimal places

- (i) 2.91 (ii) 2.61 (iii) 2.71 (iv) 2.51 (v) 2.81
-

23. Express $\frac{49}{22}$ as a decimal correct to 2 decimal places

- (i) 2.43 (ii) 2.23 (iii) 2.03 (iv) 2.33 (v) 2.13
-

24. Express $\frac{71}{74}$ as a decimal correct to 2 decimal places

- (i) 0.96 (ii) 0.76 (iii) 1.16 (iv) 1.06 (v) 0.86
-

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

- (i) 0.2 (ii) 0.1 (iii) -0.1 (iv) 0 (v) 0.3
-

26. Express $\frac{77}{100}$ as a decimal correct to 2 decimal places

- (i) 0.57 (ii) 0.77 (iii) 0.97 (iv) 0.87 (v) 0.67
-

27. Express $\frac{999}{1000}$ as a decimal correct to 3 decimal places

- (i) 0.799 (ii) 1.099 (iii) 0.899 (iv) 0.999 (v) 1.199
-

28. Express $\frac{5293}{10000}$ as a decimal correct to 4 decimal places

- (i) 0.7293 (ii) 0.4293 (iii) 0.6293 (iv) 0.3293 (v) 0.5293
-

29. $7.2 =$

- (i) $\frac{18}{25}$ (ii) 72 (iii) 720 (iv) $\frac{9}{125}$ (v) $\frac{36}{5}$
-

30. $10.0 =$

- (i) 1 (ii) 1000 (iii) $\frac{1}{10}$ (iv) $\frac{10}{1}$ (v) 100
-

31. $15.79 =$

- (i) $\frac{1579}{10000}$ (ii) 1579 (iii) $\frac{1579}{10}$ (iv) $\frac{1579}{1000}$ (v) $\frac{1579}{100}$
-

32. $4.344 =$

- (i) $\frac{543}{12500}$ (ii) $\frac{543}{125}$ (iii) $\frac{1086}{25}$ (iv) $\frac{543}{1250}$ (v) $\frac{2172}{5}$
-

33. $1.5 =$

- (i) $\frac{3}{200}$ (ii) $\frac{3}{20}$ (iii) 150 (iv) $\frac{3}{2}$ (v) 15
-

34. $5.13 =$

- (i) $\frac{513}{10000}$ (ii) $\frac{513}{1000}$ (iii) $\frac{513}{100}$ (iv) 513 (v) $\frac{513}{10}$
-

35. $16.91 =$

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

36. $8.305 =$

- (i) $\frac{1661}{2000}$ (ii) $\frac{1661}{20}$ (iii) $\frac{1661}{2}$ (iv) $\frac{1661}{200}$ (v) $\frac{1661}{20000}$
-

37. Express $\frac{3}{8}$ as a decimal correct to 4 decimal places

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

38. Express $\frac{52}{27}$ as a decimal correct to 2 decimal places

- (i) 2.03 (ii) 2.13 (iii) 1.93 (iv) 1.73 (v) 1.83
-

39. Express $\frac{48}{23}$ as a decimal correct to 3 decimal places

- (i) 2.287 (ii) 1.887 (iii) 2.187 (iv) 1.987 (v) 2.087
-

40. Express $\frac{81}{50}$ as a decimal correct to 4 decimal places

- (i) 1.72 (ii) 1.52 (iii) 1.62 (iv) 1.42 (v) 1.82
-

Assignment Key

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

37) (ii)

38) (iii)

39) (v)

40) (iii)