

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

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

(i) 2.6 (ii) 2.3 (iii) 2.4 (iv) 2.5 (v) 2.7

2. Express $\frac{1}{3}$ as a decimal correct to 2 decimal places

(i) 0.23 (ii) 0.53 (iii) 0.43 (iv) 0.13 (v) 0.33

3. Express $\frac{20}{31}$ as a decimal correct to 2 decimal places

(i) 0.65 (ii) 0.85 (iii) 0.75 (iv) 0.45 (v) 0.55

4. Express $\frac{16}{51}$ as a decimal correct to 2 decimal places

(i) 0.41 (ii) 0.31 (iii) 0.11 (iv) 0.21 (v) 0.51

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

(i) 0.9 (ii) 0.7 (iii) 1.1 (iv) 0.8 (v) 1

6. Express $\frac{47}{100}$ as a decimal correct to 2 decimal places

(i) 0.57 (ii) 0.27 (iii) 0.67 (iv) 0.47 (v) 0.37

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

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

8. Express $\frac{3717}{10000}$ as a decimal correct to 4 decimal places

(i) 0.1717 (ii) 0.3717 (iii) 0.4717 (iv) 0.5717 (v) 0.2717

9. $10.2 =$

(i) 1020 (ii) $\frac{51}{50}$ (iii) $\frac{51}{500}$ (iv) $\frac{51}{5}$ (v) 102

10. $2.1 =$

(i) $\frac{21}{100}$ (ii) 210 (iii) $\frac{21}{1000}$ (iv) 21 (v) $\frac{21}{10}$

11. $12.32 =$

77

308

154

616

- (i) $\frac{625}{1000}$ (ii) $\frac{25}{1000}$ (iii) $\frac{125}{1000}$ (iv) 1232 (v) $\frac{5}{1000}$
-

12. $3.631 =$

- (i) $\frac{3631}{1000}$ (ii) $\frac{3631}{100000}$ (iii) $\frac{3631}{10}$ (iv) $\frac{3631}{100}$ (v) $\frac{3631}{10000}$
-

13. $8.8 =$

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

14. $10.13 =$

- (i) $\frac{1013}{10000}$ (ii) $\frac{1013}{1000}$ (iii) $\frac{1013}{100}$ (iv) 1013 (v) $\frac{1013}{10}$
-

15. $19.47 =$

- (i) 1947 (ii) $\frac{1947}{100}$ (iii) $\frac{1947}{1000}$ (iv) $\frac{1947}{10}$ (v) $\frac{1947}{10000}$
-

16. $8.292 =$

- (i) $\frac{2073}{25}$ (ii) $\frac{2073}{2500}$ (iii) $\frac{4146}{5}$ (iv) $\frac{2073}{25000}$ (v) $\frac{2073}{250}$
-

17. Express $\frac{7}{6}$ as a decimal correct to 1 decimal places

- (i) 1.1 (ii) 1.2 (iii) 1.3 (iv) 1 (v) 1.4
-

18. Express $\frac{1}{3}$ as a decimal correct to 2 decimal places

- (i) 0.23 (ii) 0.33 (iii) 0.53 (iv) 0.43 (v) 0.13
-

19. Express $\frac{9}{5}$ as a decimal correct to 3 decimal places

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

20. Express $\frac{5}{8}$ as a decimal correct to 4 decimal places

- (i) 0.725 (ii) 0.425 (iii) 0.625 (iv) 0.525 (v) 0.825
-

21. Express $\frac{55}{16}$ as a decimal correct to 1 decimal places

- (i) 3.2 (ii) 3.4 (iii) 3.6 (iv) 3.3 (v) 3.5
-

22. Express $\frac{14}{11}$ as a decimal correct to 2 decimal places

- (i) 1.47 (ii) 1.07 (iii) 1.27 (iv) 1.37 (v) 1.17
-

23. Express $\frac{75}{82}$ as a decimal correct to 3 decimal places

(i) 1.115 (ii) 1.015 (iii) 0.715 (iv) 0.915 (v) 0.815

24. Express $\frac{49}{67}$ as a decimal correct to 4 decimal places

(i) 0.6313 (ii) 0.5313 (iii) 0.9313 (iv) 0.8313 (v) 0.7313

25. Express $\frac{118}{725}$ as a decimal correct to 3 decimal places

(i) 0.063 (ii) -0.037 (iii) 0.163 (iv) 0.363 (v) 0.263

26. Express $\frac{5302}{867}$ as a decimal correct to 4 decimal places

(i) 5.9153 (ii) 6.2153 (iii) 6.0153 (iv) 6.1153 (v) 6.3153

27. Find the period of the recurring decimal $5.\overline{8}$

(i) 2 (ii) 80 (iii) 8 (iv) 1 (v) 0

28. Find the period of the recurring decimal $3.44444444444444\dots$

(i) 4 (ii) 0 (iii) 1 (iv) 40 (v) 2

29. Find the periodicity of the recurring decimal $10.\overline{481}$

(i) 1 (ii) 4 (iii) 3 (iv) 481 (v) 2

30. Find the periodicity of the recurring decimal $11.37037037037037\dots$

(i) 2 (ii) 4 (iii) 370 (iv) 3 (v) 1

31. The recurring part of the decimal $22.2\overline{7}$ is

(i) 727 (ii) 772 (iii) 22.27 (iv) 7 (v) 77

32. The recurring part of the decimal $6.22222222222222\dots$ is

(i) 6.2 (ii) 2 (iii) 222 (iv) 226 (v) 22

33. Convert the non-terminating recurring decimal $22.\overline{5}$ to rational number

(i) $\frac{203}{11}$ (ii) $\frac{203}{9}$ (iii) 29 (iv) $\frac{67}{3}$ (v) $\frac{205}{9}$

34. Convert the non-terminating recurring decimal $17.88888888888888\dots$ to rational number

(i) $\frac{53}{3}$ (ii) $\frac{161}{9}$ (iii) $\frac{161}{11}$ (iv) 23 (v) $\frac{163}{9}$

35. Convert the fraction $\frac{392}{27}$ to non-terminating recurring decimal

- (i) $0.14\overline{518}$ (ii) $14.\overline{518}$ (iii) $145.\overline{185}$ (iv) $1451.\overline{851}$ (v) $1.4\overline{518}$
-

36. Convert the fraction $\frac{649}{21}$ to non-terminating recurring decimal

- (i) $309.\overline{047619}$ (ii) $30.\overline{904761}$ (iii) $0.30\overline{904761}$ (iv) $3090.\overline{476190}$ (v) $3.0\overline{904761}$
-

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

- (i) $\frac{150}{1}$ (ii) $\frac{76}{1}$ (iii) $\frac{2700}{100}$ (iv) $\frac{305}{18}$ (v) $\frac{2400}{32}$
-

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

- (i) $\frac{1}{33}$ (ii) $\frac{1}{24}$ (iii) $\frac{2240}{80}$ (iv) $\frac{359}{18}$ (v) $\frac{1}{3}$
-

Assignment Key

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