CHAPTER

06

DECIMAL AND FUNDAMENTAL OPERATIONS ON THEM

Decimal Numbers

The numbers expressed in decimal form are called decimal numbers e.g. 0.71, 3.2, 0.10

A decimal has two parts, namely

(i) whole number part (ii) decimal part

These parts are separated by a dot (.) called the decimal point.

The part on the left side of the decimal point is the whole number part and that on its right side is the decimal part. e.g. In 62.64, whole number part = 62 and decimal part = 64.

Decimal Places The number of digits contained in the decimal part of a decimal gives the number of decimal places. e.g. 4.24 has two decimal places and 9.126 has three decimal places.

Decimal Fraction

A fraction in which the denominator is 10 or the power of 10 called decimal fraction. It may be represented as $\frac{1}{10}, \frac{3}{100}, \frac{6}{1000}$ etc. Hence, $\frac{3}{100}$ is the hundredth part of 3 and must be written as 0.03.

Thus every decimal fraction represents a fraction number.

Table for Decimal Place Value

Thousand	Hundred	Ten	Ones	Tenth	Hundredth	Thousandth
1000	100	0	1	$\left(\frac{1}{10}\right) = 0.1$	$\left(\frac{1}{100}\right) = 0.01$	$\left(\frac{1}{1000}\right) = 0.001$

Operations on Decimal Numbers (or Fractions)

1. Addition and Subtraction of Decimal Numbers

To add or subtract decimal numbers, the numbers are placed under each in such a way that the decimal point lie in a line. Then, the numbers can be added or subtracted as in usual manner.

e.g. Find the addition of 51.3, 7.078, 1.38 and 0.9.

Now,

$$\begin{array}{r} 51.300 \\ 7.078 \\ 1.380 \\ +\ 0.900 \\ \hline 60.658 \end{array}$$

Example **1.** Find the addition of 9 + 2.42 + 4.067 + 16.89.

(1) 32.737 (2) 32.377 (3) 32.773 (4) 32.320

Sol. (2)
$$\begin{array}{r} 9.000 \\ 2.420 \\ 4.067 \\ +16.890 \\ \hline 32.377 \end{array}$$

Example **2.** Subtract 27.85 – 14.34.

(1) 12.51 (2) 11.13 (3) 13.51 (4) 13.71

Sol. (3)
$$\begin{array}{r} 27.85 \\ -14.34 \\ \hline 13.51 \end{array}$$

2. Multiplication of Two or More Decimal Numbers

To multiply two decimal numbers, we follow the given steps:

Step I Multiply the two decimal numbers without the decimal point just like whole numbers.

Step II Now, count the number of digits starting from the rightmost digit and move towards left. Then, put the decimal there. Mark the decimal point in the product in such a way that the number of decimal places in the product is equal to the sum of the decimal places in the given decimal numbers.

↗ *To multiply a decimal number by* 10 *is equivalent to moving the decimal point one place to the right. To multiply by* 100 *is equivalent to moving the decimal point two places to the right and so on.*

Example **3.** Find the product of 3.5413 × 2.1.

(1) 7.67343 (2) 7.14654 (3) 6.67345 (4) 7.43673

Sol. (4) For the product of 3.5413 × 2.1.

Consider them without decimal,

i.e., 35413 × 21 = 743673

Total number of digits after decimal = 4 + 1 = 5

So, put decimal point at 5th place from right hand side in product.

∴ 3.5413 × 2.1 = 7.43673

3. Division of Decimal Numbers

To divide a decimal number by another decimal number, remove the decimal point in the divisor by multiplying both the dividend and divisor by the appropriate multiple of 10, then use the procedure of dividing a decimal number by a whole number.

e.g. $7.103 \div 2.01 = \frac{7.103}{2.01} = \frac{7.103 \times 100}{2.01 \times 100} = \frac{710.3}{201} = 3.53$

Example **4.** Divide 1.562 by 0.25.

(1) 6.248 (2) 6.240 (3) 5.284 (4) 6.482

Sol. (1) $\frac{1.562}{0.25} = \frac{1.562 \times 100}{0.25 \times 100} = \frac{156.2}{25}$

Now,
$$\begin{array}{r} 6.248 \\ 25\overline{)\,156.200} \\ 150 \\ \hline 62 \\ 50 \\ \hline 120 \\ 100 \\ \hline 200 \\ 200 \\ \hline \times \end{array}$$

∴ The quotient is 6.248.

4. Conversion of Simple Fraction into Decimal Number

To convert a fraction into a decimal, given steps are to be followed:

Step I Divide the numerator by the denominator till a non-zero remainder is obtained.

Step II Put a decimal point in the dividend as well as in the quotient.

Step III Put a zero on the right of the decimal point in the dividend as well as on the right of the remainder.

Step IV Divide again just as we do in wholenumbers.

Step V Repeat steps III and IV, till the remainder is zero.

Example **5.** Convert $\frac{11}{16}$ into decimal number.

(1) 0.6875 (2) 0.6785 (3) 0.6587 (4) 0.5687

Sol. (1)
$$\begin{array}{r} 0.6875 \\ 16\overline{)\,11.0000} \\ 96 \\ \hline 140 \\ 128 \\ \hline 120 \\ 112 \\ \hline 80 \\ 80 \\ \hline \times \end{array}$$

∴ $\frac{11}{16} = 0.6875$

5. Conversion of Decimal Number into Simple Fraction

To convert a decimal into a fraction, given steps are to be followed:

Step I Write the given decimal without decimalpoint as the numerator of the fraction.

Step II In the denominator, write 1 followed by as many zeroes as there are decimal places in the given decimal.

Step III Change the fraction obtained to the simplest form.

e.g., $0.025 = \frac{25}{1000}$

[$\because$ 3 digits after decimal, so we put 3 zeros]

Some Important Decimal Conversion

$\frac{1}{10} = 0.1$	$\frac{1}{9} = 0.\bar{1}$	$\frac{1}{12} = 0.08\bar{3}$	$\frac{1}{8} = 0.125$
$\frac{1}{15} = 0.06$	$\frac{1}{6} = 0.1\bar{6}$	$\frac{1}{16} = 0.0625$	$\frac{1}{5} = 0.2$
$\frac{1}{20} = 0.05$	$\frac{1}{4} = 0.25$	$\frac{1}{25} = 0.04$	$\frac{1}{3} = 0.\bar{3}$
$\frac{1}{40} = 0.025$	$\frac{1}{2} = 0.5$	$\frac{1}{50} = 0.02$	$\frac{3}{4} = 0.75$
$\frac{1}{100} = 0.01$	$\frac{2}{3} = 0.\bar{6}$	$\frac{2}{5} = 0.4$	$\frac{3}{2} = 1.5$
$\frac{5}{8} = 0.625$	$\frac{7}{8} = 0.875$	$\frac{3}{5} = 0.6$	$\frac{9}{11} = 0.\overline{81}$

Entrance Corner

1. Simplification of $2.75 - 1.25 + 4.75 - 3.80$ in fractional form is **[JNV 2019]**

(1) $2\frac{9}{20}$ (2) $2\frac{9}{10}$

(3) $1\frac{9}{10}$ (4) $5\frac{9}{20}$

2. Find the value of $3 \times 0.3 \times 0.003 \times 0 \times 30$. **[JNV 2018]**

(1) 81 (2) 8.1

(3) 0.81 (4) 0

3. If $23200 \div 145 = 160$, then $23.2 \div 1.45$ is equal to **[JNV 2018]**

(1) 160 (2) 16 (3) 1.60 (4) 0.16

4. Find the sum of $7.7 + 7.77 + 7.7777 + 7.777$. **[JNV 2018]**

(1) 28.2828 (2) 28.2847 (3) 30.0247 (4) 31.0247

5. The product of two decimals is 20.7326. If one decimal is 4.13, what is the other decimal? **[JNV 2017]**

(1) 5.12 (2) 4.82 (3) 5.23 (4) 5.02

6. If $4.75 \times 0.7 = 3.325$, then 475×0.7 is equal to **[JNV 2016]**

(1) 332.5 (2) 33.25 (3) 3.325 (4) 0

7. If $4854.3 \div 3.3 = 1471$, then $48.543 \div 33$ is equal to **[JNV 2016]**

(1) 1.471 (2) 14.71 (3) 147.1 (4) 0.1471

8. Ram bought a book for ₹ 178.50, some medicines for ₹ 248.25 and gave a ₹ 500 note to the shopkeeper. The remaining amount is **[JNV 2016]**

(1) ₹ 126.50 (2) ₹ 70.50 (3) ₹ 75.50 (4) ₹ 73.25

9. The decimal equivalent to $\left[\frac{3}{4} + \frac{4}{5} + \frac{8}{25}\right]$ is **[JNV 2015]**

(1) 1.870 (2) 18.70

(3) 187 (4) 1870

10. If $3.65 \times 0.5 = 1.825$, then the value of 365×0.5 is **[JNV 2015]**

(1) 182.5 (2) 18.25

(3) 1.825 (4) 365

11. $\frac{0.1}{0.01} + \frac{0.01}{0.1}$ is equals to **[JNV 2014]**

(1) $\frac{101}{10}$ (2) $\frac{1101}{100}$

(3) $\frac{11}{10}$ (4) $\frac{1001}{100}$

12. 00.0675 is divided by 15, quotient is **[JNV 2014]**

(1) 0.0045 (2) 0.0450

(3) 0.0450 (4) 0.6045

13. Which of the following is equivalent to 1.01? **[JNV 2014]**

(1) 101% (2) 10.1%

(3) 1.01% (4) 1010%

14. If $4015 \div 11 = 365$, $40.15 \div 1.1$ is equal to **[JNV 2014]**

(1) 36.5 (2) 3.65 (3) 0.365 (4) 0.0365

15. $17\frac{1}{16}$ decimal equivalent as **[JNV 2013]**

(1) 17.625 (2) 17.6025
(3) 17.0625 (4) 17.0525

16. Which number divided by 5.029 to obtain 50.29? **[JNV 2013]**

(1) 0.01 (2) 0.1
(3) 1.0 (4) 10.0

17. The sum of 7.7,7.07,7.007 and 77.0077 is **[JNV 2013]**

(1) 98.7777 (2) 98.7877
(3) 98.7807 (4) 98.7847

18. What is the decimal equivalent of (₹ 2200 of 4%) of 7.5 %? **[JNV 2013]**

(1) ₹ 13.2 (2) ₹ 6.6 (3) ₹ 3.3 (4) ₹ 26.4

19. What fraction of ₹ 4 is ₹ 1.50? **[JNV 2012]**

(1) $\frac{1}{8}$ (2) $\frac{3}{8}$ (3) $\frac{1}{4}$ (4) $\frac{2}{5}$

20. $\frac{61}{10000}$ can be changed into decimal as **[JNV 2010]**

(1) 610000 (2) 0.61000
(3) 0.000061 (4) 0.0061

21. The product of two decimals is 14.837. If one decimal is 4.01, what is the other decimal? **[JNV 2010]**

(1) 37 (2) 3.7 (3) 3.07 (4) 3.007

22. A drum is two-third full, if 50 L more required to fill it up , how much is the capacity of the drum? **[JNV 2009]**

(1) 150 L (2) 120 L (3) 100 L (4) 90 L

23. The value of $\frac{1}{125}$ is **[JNV 2007]**

(1) 0.8 (2) 0.08 (3) 0.008 (4) 0.0008

24. The value of 0.05% is **[JNV 2007]**

(1) 0.0005 (2) 0.005 (3) 0.05 (4) 0.5

25. What is the decimal equivalent of $1\frac{5}{8}$? **[JNV 2005]**

(1) 1.58 (2) 1.62
(3) 1.622 (4) 1.625

26. 4.4% is equivalent to which of the following? **[JNV 2005]**

(1) $\frac{4.4}{10}$ (2) $\frac{4.4}{100}$ (3) $\frac{44}{10}$ (4) $\frac{44}{100}$

27. In decimal 80% can be expressed as **[JNV 2004]**

(1) $\frac{8}{10}$ (2) $\frac{8}{100}$ (3) $\frac{100}{8}$ (4) $\frac{10}{8}$

28. 5.125 when changed into fraction, becomes **[JNV 2003]**

(1) $5\frac{1}{125}$ (2) $5\frac{1}{25}$ (3) $5\frac{1}{8}$ (4) $51\frac{1}{4}$

29. The fraction equivalent to 1.25 is **[JNV 2002]**

(1) $1\frac{1}{4}$ (2) $12\frac{1}{2}$ (3) $1\frac{1}{8}$ (4) $12\frac{1}{4}$

30. A bus left Delhi for Dehradun at 10 : 15 am. It took 6 h 30 min in journey. At what time did the bus reach at Dehradun? **[JNV 2002]**

(1) 4 : 15 pm (2) 4 : 30 pm
(3) 4 : 45 pm (4) 5 : 00 pm

31. The product of 2, 0.2, 0.02 and 0.002 is equal to **[JNV 2000]**

(1) 0.016 (2) 0.0016
(3) 0.00016 (4) 0.000016

32. Which of the following is equal to 1? **[JNV 2000]**

(1) $\frac{0.7 \times 6}{10 \times 4.2}$ (2) $\frac{0.7 \times 6}{1.0 \times 4.2}$
(3) $\frac{0.7 \times 0.6}{10 \times 4.2}$ (4) $\frac{7.0 \times 6.0}{1.0 \times 4.2}$

33. Which one of the following is equal to 9? **[JNV 1999]**

(1) 15×0.006 (2) 15×0.060
(3) 150×0.600 (4) 15×0.600

34. $0.231 - 0.02$ is equal to **[JNV 1999]**

(1) 0.233 (2) 0.229
(3) 0.211 (4) 0.031

35. $\frac{3 \times 12}{10}$ can be written as **[JNV 1998]**

(1) 0.36 (2) 3.12 (3) 3.60 (4) 31.2

36. $\frac{77}{5}$ may be written as **[JNV 1998]**

(1) 15.4 (2) 15.24 (3) 15.04 (4) 1.54

37. $0.3636 \div 0.06$ is equal to **[JNV 1997]**

(1) 6.600 (2) 6.060
(3) 0.660 (4) 0.606

38. How will you express fraction 2/25 in decimal fraction? **[JNV 1997]**

(1) 0.008 (2) 0.080
(3) 0.800 (4) 8.000

Answers

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

Hints and Solutions

1. According to the question

Given expression $= 2.75 - 1.25 + 4.75 - 3.80$

$= 2.75 + 4.75 - 1.25 - 3.80$

$= 7.5 - 5.05 = 2.45 = \frac{245}{100} = \frac{49}{20} = 2\frac{9}{20}$

2. Any number multiplied by zero we get zero as resultant.

$\therefore\ 3 \times 0.3 \times 0.003 \times 0 \times 30 = 0$

3. $23200 \div 145 = 160$ [given]

$\therefore 23.2 \div 1.45 = \frac{2320}{145} = 16$

4.
$$\begin{array}{r} 7.7000 \\ 7.7700 \\ 7.7770 \\ +\ 7.7777 \\ \hline 31.0247 \end{array}$$

5. Suppose second decimal $= x$

Then, $x \times 4.13 = 20.7326$

$\Rightarrow x = \frac{20.7326}{4.13} = 5.02$

6. Since, $4.75 \times 0.7 = 3.325$

So, $475 \times 0.7 = 332.5$

7. Since, $4854.3 \div 3.3 = 1471$

So, $48.543 \div 33 = 1.471$

8. Here, Ram expenses for book and medicine

$= 178.50 + 248.25 = ₹\ 426.75$

Then, amount returned to Ram by shopkeeper

$= 500 - 426.75 = ₹\ 73.25$

9. Required decimal value $= \frac{3}{4} + \frac{4}{5} + \frac{8}{25}$

$= 0.75 + 0.80 + 0.32 = 1.87$

10. Given, $3.65 \times 0.5 = 1.825$

$\therefore\ 365 \times 0.5 = 1.825 \times 100 = 182.5$

11. $\frac{0.1}{0.01} + \frac{0.01}{0.1} = 10 + \frac{1}{10} = \frac{100+1}{10} = \frac{101}{10}$

12. $00.0675 \div 15$

$= \frac{0675}{1000 \times 15} = \frac{45}{1000} = 0.0045$

13. $101\% = \frac{101}{100} = 1.01$

14. As, $\frac{4015}{11} = 365$ then $\frac{40.15}{1.1} = 36.5$

15. Required decimal equivalent of $17\frac{1}{16}$

$= \frac{16 \times 17 + 1}{16} = \frac{272+1}{16} = \frac{273}{16} = 17.0625$

16. Suppose number $= x$

Then, $\frac{5.029}{x} = 50.29 \Rightarrow x = \frac{5.029}{50.29}$

$\therefore\ x = 0.1$

17. Required sum $= 7.7$

$$\begin{array}{r} 7.07 \\ 7.007 \\ 77.0077 \\ \hline 98.7847 \end{array}$$

18. Required decimal equivalent

$= 2200 \times \frac{4}{100} \times \frac{7.5}{100} = ₹\ 6.6$

19. $\frac{₹\,1.50}{₹4} = \frac{150}{400} = \frac{3}{8}$

20. $\frac{61}{10000} = 0.0061$

21. Suppose second decimal $= x$

Then, $x \times 4.01 = 14.837 \Rightarrow x = \frac{14.837}{4.01} = 3.7$

22. $\because$ Empty part of the drum $= 1 - \frac{2}{3} = \frac{1}{3}$

If $\frac{1}{3}$ part requires $= 50$ L

Then , 1 part requires $= 50 \div \frac{1}{3} = 50 \times 3 = 150$ L

23. Required value of $\frac{1}{125} = 0.008$

24. $0.05\% = \frac{0.05}{100} = 0.0005$

25. $1\frac{5}{8} = \frac{1\times8+5}{8} = \frac{13}{8} = 1.625$

26. $4.4\% = \frac{4.4}{100}$

27. $80\% = \frac{80}{100}$ or $\frac{8}{10}$

28. $5.125 = \frac{5125}{1000} = \frac{41}{8}$ or $5\frac{1}{8}$

29. $\because 1.25 = \frac{125}{100} = \frac{5}{4}$ or $1\frac{1}{4}$

30. Departure of bus from Delhi = 10 : 15 am
Time taken in the journey = 6 h 30 min
∴ Reach the bus at Dehradun
= 10 : 15 + 6 : 30 = 16 : 45 or 4 : 45 pm

31. $2 \times 0.2 \times 0.02 \times 0.002 = 0.000016$

32. $\because \frac{0.7\times6}{1.0\times4.2} = \frac{7\times6\times10}{10\times42} = 1$

33. $\because 15 \times 0.600 = 9.000 = 9$

34.
$$\begin{array}{r} 0.231 \\ -0.020 \\ \hline 0.211 \end{array}$$

35. $\frac{3\times12}{10} = \frac{36}{10} = 3.6$ or 3.60

36.
$$\begin{array}{r} 15.4 \\ \hline 5)77.0 \\ 5 \\ \hline 27 \\ 25 \\ \hline 20 \\ 20 \\ \hline 0 \end{array}$$

Quotient = 15.4

37. $0.3636 \div 0.06 = \frac{3636\times100}{10000\times6} = \frac{606}{100} = 6.06$

38.
$$\begin{array}{r} 25)\ 2.00\ (0.08 \\ \underline{2.00} \\ \times \end{array}$$

Practice Exercise

1. The value of 4.44 – 0.330 is
(1) 4.00 (2) 3.99
(3) 4.11 (4) 0.429

2. The value of 1.1 – 1.01 is
(1) 0.9 (2) 0.09
(3) 1 (4) 0

3. 2.3 + 0.62 – 1.39 is equal to
(1) 3 (2) 1.53
(3) 3.34 (4) 5

4. The product of $1.2 \times 0.6 \times 3.12 \times 0.03$ is equal to
(1) 0.067392 (2) 0.063568
(3) 0.4812 (4) 0.00392

5. The product of $0.5 \times 0.05 \times 0.005$ is equal to
(1) 0.00125 (2) 0.000125
(3) 0.125 (4) 0.0125

6. The value of 2.5×0.01 is
(1) 25 (2) 0.251
(3) 0.025 (4) 2.5

7. Fill up the blank space with the correct number $4.5 \times 0.2 = \ldots$.
(1) 0.90 (2) 9.00
(3) 4.72 (4) 0.09

8. Simplify $0.2 \times 0.3 \times 0.7$.
(1) 0.237 (2) 4.2
(3) 0.042 (4) 0.420

9. The product of $0.3 \times 0.4 \times 0.7$ is
(1) 0.084 (2) 0.0084
(3) 0.84 (4) 84

10. The value of $6.75 \div 0.05$ is
(1) 120 (2) 135
(3) 130 (4) 139

11. The value of $\frac{1.298 - 0.1298}{0.04}$ is equal to
(1) 29 (2) 29.105
(3) 28.205 (4) 29.205

12. By what number should 4.3 be multiplied, so that the product is 0.43?
(1) 0.01 (2) 0.1
(3) 1.1 (4) 0.11

13. By multiplying a number by 0.6, result is 657.24. What is the result, if the number is multiplied by 0.06?
(1) 6.5724 (2) 6
(3) 65.724 (4) 657.24

14. The value of $\frac{0.5 + 0.7 + 0.3}{5}$ is equal to
(1) 0.3 (2) 3.1 (3) 0.03 (4) 1.3

15. The value of $\frac{0.037 - 0.028}{0.03}$ is equal to
(1) 3.0 (2) 0.3
(3) 0.03 (4) 0.003

16. In fraction 3.125 can be written as
(1) $3\frac{1}{25}$ (2) $3\frac{1}{8}$
(3) $3\frac{1}{125}$ (4) $31\frac{1}{4}$

17. $6 + \frac{9}{100} + \frac{1}{1000} + \frac{2}{10}$ is equal to
(1) 6.291 (2) 6.921 (3) 8.81 (4) 6.129

18. $\frac{8}{1000} + \frac{7}{100} + \frac{5}{10}$ is equal to
(1) 0.0578 (2) 0.875
(3) 0.578 (4) 0.0875

Answers

1. (3)	**2.** (2)	**3.** (2)	**4.** (1)	**5.** (2)	**6.** (3)	**7.** (1)	**8.** (3)	**9.** (1)	**10.** (2)
11. (4)	**12.** (2)	**13.** (3)	**14.** (1)	**15.** (2)	**16.** (2)	**17.** (1)	**18.** (3)		

Hints and Solutions

1. $4.44 - 0.330 = 4.11$

2.
$$\begin{array}{r} 1.10 \\ -1.01 \\ \hline 0.09 \end{array}$$

3. $2.30 + 0.62 - 1.39 = 2.92 - 1.39 = 1.53$

4. $1.2 \times 0.6 \times 3.12 \times 0.03 = 0.067392$

5. $0.5 \times 0.05 \times 0.005 = 0.000125$

6. $2.5 \times 0.01 = 0.025$

7. $\because\ 4.5 \times 0.2 = 0.90$

8. $0.2 \times 0.3 \times 0.7 = 0.042$

9. $0.3 \times 0.4 \times 0.7 = 0.084$

10. $\frac{6.75}{0.05} = 135$

11. $\frac{1.298 - 0.1298}{0.04} = \frac{1.1682}{0.04}$
$= \frac{11682}{10000} \times \frac{100}{4} = 29.205$

12. Let the number be x.
Then, $x \times 4.3 = 0.43$
$\Rightarrow x = \frac{0.43}{4.3} = \frac{43}{100} \times \frac{10}{43} = \frac{1}{10} = 0.1$

13. Let $x \times 0.6 = 657.24$
$\Rightarrow \quad x = \frac{657.24}{0.6}$
Hence, $\frac{657.24}{0.6} \times 0.06 = \frac{65724}{100} \times \frac{6}{100} \times \frac{10}{6}$
$= \frac{65724}{1000} = 65.724$

14. $\because \frac{0.5 + 0.7 + 0.3}{5} = \frac{1.5}{5} = 0.3$

15. $\frac{0.037 - 0.028}{0.03} = \frac{0.009}{0.03}$
$= \frac{9}{1000} \times \frac{100}{3}$
$= \frac{3}{10} = 0.3$

16. $3.125 = \frac{3125}{1000} = \frac{125}{40} = \frac{25}{8} = 3\frac{1}{8}$

17. $6 + 0.09 + 0.001 + 0.2 = 6.291$

18. $\frac{8}{1000} + \frac{7}{100} + \frac{5}{10} = 0.008 + 0.07 + 0.5$
$= 0.578$

Self Practice

1. The value of (6.97×0.093) will be

(1) 0.7 (2) 0.8 (3) 7.0 (4) 8.0

2. The product of 0.2, 0.02 and 0.002 is

(1) 0.016 (2) 0.0016 (3) 0.00016 (4) 0.000008

3. Which of the following simplification is equal to 1?

(1) $\frac{0.304 \times 20}{304 \times 2}$ (2) $\frac{0.304 \times 20}{3.04 \times 2}$ (3) $\frac{0.304 \times 20}{30.4 \times 2}$ (4) $\frac{0.304 \times 20}{304 \times 0.2}$

4. Subtract 82.68 from 97.836.

(1) 12.24 (2) 15.156 (3) 19.75 (4) 14.21

5. The addition of 4.23, 31.79, 5.006 and 7.5 is

(1) 49.5 (2) 35.27 (3) 48.341 (4) 48.526

6. Convert 8.125 into fraction.

(1) $\frac{5}{10}$ (2) $2\frac{3}{4}$ (3) $1\frac{1}{2}$ (4) $8\frac{1}{8}$

7. Raju deposited ₹ 23.25 in first week, ₹ 27.50 in second week and ₹ 30.75 in the third. He had deposited ₹ 250.60 earlier. Now, what is his total amount in that bank?

(1) ₹ 350 (2) ₹ 332.10 (3) ₹ 325.75 (4) ₹ 275.25

8. $1.32 \div 0.4$ is equal to

(1) 0.33 (2) 0.033 (3) 3.3 (4) 33

9. $0.5 \times 0.5 \times 0.5$ is equal to

(1) 0.125 (2) 0.0125 (3) 0.00125 (4) 1.25

10. $0.220 - 0.202$ is equal to

(1) 0.082 (2) 0.018 (3) 0.180 (4) 0.982

11. 2.05 when changed into a fraction becomes

(1) $2\frac{1}{20}$ (2) $3\frac{1}{8}$ (3) $3\frac{1}{25}$ (4) $3\frac{1}{20}$

12. The expression $\frac{7.2 + 4.8}{5.6 - 3.2}$ is equal to

(1) 8.0 (2) 5.0 (3) 2.8 (4) 1.4

13. If $187 \times 98 = 18326$, the value of $183.26 \div 18.7$ is

(1) 0.098 (2) 98 (3) 9.8 (4) 9.08

Answers

1. (1)	**2.** (4)	**3.** (2)	**4.** (2)	**5.** (4)	**6.** (4)	**7.** (2)	**8.** (3)	**9.** (1)	**10.** (2)
11. (1)	**12.** (2)	**13.** (3)							