

Decimals

Exercise 3B

Q1

Answer :

Converting the given decimals into like decimals, we get:

16.00, 8.70, 0.94, 6.80 and 7.77

Writing these decimals in column form and adding, we get:

$$\begin{array}{r} 16.00 \\ 8.70 \\ 0.94 \\ 6.80 \\ 7.77 \\ \hline 40.21 \end{array}$$

Hence, the sum of the given decimals is 40.21

Q2

Answer :

Converting the given decimals into like decimals, we get:

18.600, 206.370, 8.008, 26.400 and 6.900

Writing these decimals in column form and adding, we get:

$$\begin{array}{r} 18.600 \\ 206.370 \\ 8.008 \\ 26.400 \\ 6.900 \\ \hline 266.278 \end{array}$$

Hence, the sum of the given decimals is 266.278

Q3

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Answer :

Converting the given decimals into like decimals, we get:

63.50, 9.70, 0.80, 26.66 and 12.17

Writing these decimals in column form and adding, we get:

$$\begin{array}{r} 63.50 \\ 9.70 \\ 0.80 \\ 26.66 \\ 12.17 \\ \hline 112.83 \end{array}$$

Hence, the sum of the given decimals is 112.83.

Q4

Answer :

Converting the given decimals into like decimals, we get:

17.400, 86.390, 9.435, 8.800 and 0.060

Writing these decimals in column form and adding, we get:

$$\begin{array}{r} 17.400 \\ 86.390 \\ 9.435 \\ 8.800 \\ 0.060 \\ \hline 122.085 \end{array}$$

Hence, the sum of the given decimals is 122.085.

Q5

Answer :

Converting the given decimals into like decimals, we get:

26.900, 19.740, 231.769 and 0.048

Writing these decimals in column form and adding, we get:

$$\begin{array}{r} 26.900 \\ 19.740 \\ 231.769 \\ 0.048 \\ \hline 278.457 \end{array}$$

Hence, the sum of the given decimals is 278.457.

Q6

Answer :

Converting the given decimals into like decimals, we get:

23.800, 8.940, 0.078 and 214.600

Writing these decimals in column form and adding, we get:

$$\begin{array}{r} 23.800 \\ 8.940 \\ 0.078 \\ 214.600 \\ \hline 247.418 \end{array}$$

Hence, the sum of the given decimals is 247.418.

Q7

Answer :

Converting the given decimals into like decimals, we get:

6.606, 66.600, 666.000, 0.066 and 0.660

Writing these decimals in column form and adding, we get:

$$\begin{array}{r} 6.606 \\ 66.600 \\ 666.000 \\ 0.066 \\ 0.660 \\ \hline 739.932 \end{array}$$

Hence, the sum of the given decimals is 739.932.

Q8

Answer :

Converting the given decimals into like decimals, we get:

9.090, 0.909, 99.900, 9.990 and 0.099

Writing these decimals in column form and adding, we get:

$$\begin{array}{r} 9.090 \\ 0.909 \\ 99.900 \\ 9.990 \\ 0.099 \\ \hline 119.988 \end{array}$$

Hence, the sum of the given decimals is 119.988.

Q9

Answer :

The given decimals are like decimals. Writing them in column form with the larger one at the top and subtracting them, we get:

$$\begin{array}{r} 72.43 \\ -14.79 \\ \hline 57.64 \end{array}$$

$$\therefore (72.43 - 14.79) = 57.64$$

Q10

Answer :

Converting the given decimals into like decimals, we get:

36.74 and 52.60

Writing them in column form with the larger one at the top and subtracting them, we get:

$$\begin{array}{r} 52.60 \\ -36.74 \\ \hline 15.86 \end{array}$$

$$\therefore (52.60 - 36.74) = 15.86$$

Q11

Answer :

Converting the given decimals into like decimals, we get:

13.876 and 22.000

Writing them in column form with the larger one at the top and subtracting them, we get:

$$\begin{array}{r} 22.000 \\ -13.876 \\ \hline 8.124 \end{array}$$

$$\therefore (22.000 - 13.876) = 8.124$$

Q12

Answer :

Converting the given decimals into like decimals, we get:

15.079 and 24.160

Writing them in column form with the larger one at the top and subtracting them, we get:

$$\begin{array}{r} 24.160 \\ -15.079 \\ \hline 9.081 \end{array}$$

$$\therefore (24.160 - 15.079) = 9.081$$

Q13

Answer :

Converting the given decimals into like decimals, we get:

0.680 and 1.007

Writing them in column form with the larger one at the top and subtracting them, we get:

$$\begin{array}{r} 1.007 \\ -0.680 \\ \hline 0.327 \end{array}$$

$$\therefore (1.007 - 0.680) = 0.327$$

Q14

Answer :

Converting the given decimals into like decimals, we get:

0.4678 and 5.0500

Writing them in column form with the larger one at the top and subtracting them, we get:

$$\begin{array}{r} 5.0500 \\ -0.4678 \\ \hline 4.5822 \end{array}$$

$$\therefore (5.0500 - 0.4678) = 4.5822$$

Q15

Answer :

Converting the given decimals into like decimals, we get:

2.5307 and 8.0000

Writing them in column form with the larger one at the top and subtracting them, we get:

$$\begin{array}{r} 8.0000 \\ -2.5307 \\ \hline 5.4693 \end{array}$$

$$\therefore (8.0000 - 2.5307) = 5.4693$$

Q16

Answer :

Writing the given like decimals in column form with the larger one at the top and subtracting them, we get:

$$\begin{array}{r} 9.001 \\ -6.732 \\ \hline 2.269 \end{array}$$

$$\therefore (9.001 - 6.732) = 2.269$$

Q17

Answer :

Converting the given decimals into like decimals, we get:

5.746 and 9.100

Writing them in column form with the larger one at the top and subtracting them, we get:

$$\begin{array}{r} 9.100 \\ -5.746 \\ \hline 3.354 \end{array}$$

$$\therefore (9.100 - 5.746) = 3.354$$

Q18

Answer :

Converting the given decimals into like decimals, we get:

63.58 and 92.00

Thus, required number = $(92.00 - 63.58) = 28.42$

Hence, 28.42 should be added to 63.58 to get 92.

Q19

Answer :

Converting the given decimals into like decimals, we get:

8.100 and 0.813

Thus, required number = $(8.100 - 0.813) = 7.287$

Hence, 7.287 should be subtracted from 8.1 to get 0.813.

Q20

Answer :

Converting the given decimals into like decimals, we get:

32.67 and 60.10

Thus, required number = $(60.10 - 32.67) = 27.43$

Hence, 32.67 should be increased by 27.43 to get 60.1.

Q21

Answer :

Converting the given decimals into like decimals, we get:

74.30 and 26.87

Thus, required number = $(74.30 - 26.87) = 47.43$

Hence, 74.3 should be decreased by 47.43 to get 26.87.

Q22

Answer :

Total amount spent by Rohit on purchasing of the given articles = Rs $(23.75 + 2.85 + 15.90)$
= Rs 42.50

Money given to the shopkeeper = Rs 50

∴ Money returned by the shopkeeper = Rs $(50 - 42.50)$
= Rs 7.50

Thus, amount received by Rohit = Rs 7.50

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