CHAPTER-7 DECIMALS

Exercise 7A - Pageno - 113

1. Write each of the following en figures.

(i) Fifty-eight point six three.

Solution: 58.63

(V) Four hundred four point zero four four Solution: 404.044

(vii) Point zero one five Solution: ₹ 0.015

2. Write the place value of each digit in each of the following decimals.

(iii) 46.075

Place value of 4 = 40

Place value of 6 = 6

Place value of 0 = 0

Place value of 7 = 7

Place Value of $5 = \frac{5}{1000}$

3. Write each of the following decimals in expanded (%) $500 + 70 + 8 + \frac{3}{10} + \frac{1}{100} + \frac{6}{1000}$ form.



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3. Write each of the following decimals expanded form:

(ii) 283.61

Solution: $(2 \times 100) + (8 \times 10) + (3 \times 1) + (6 \times \frac{1}{10}) + (1 \times \frac{1}{100})$

200+80+3+6+1

(N.) 8.006

Solution: $(8\times1) + 0 + 0 + (6\times\frac{1}{1000})$

8+6

4. Write each of the following in decimal form.

(ii) 500 + 70 + 8 + 3 + 1 + 6

Solution: 578.316

5. Convert each of the following into like decimals:

Solution: 7.500, 64.230, 0.074.

(ii) 0.6, 5.937, 2.36, 4.2

Solution: 0.600, 5.937, 2.360, 4.200.

(iii) 1.6, 0.07, 3.58, 2.9

Solution: 1.60, 0.07, 3.58, 2.90.

6. Fill in the place holders with the correct Symbol > or <.

(i) 84.23 > 76.35 (iv) 12.06 > 12.006

(ii) 7.608 < 7.68 (Vi) 0.97 < 1.07

7. Arrange the following decimals in ascending order:
(i) 5.8, 7.2, 5.69, 7.14, 5.06
Solution: 5.06 < 5.69 < 5.8 < 7.14 < 7.2

(ii) 0.6, 6.6, 6.06, 66.6, 0.06.

Solution: 0.06 < 0.6 < 6.06 < 6.6 < 66.6

8. Arrange the following decimals in descending order:

(i) 7.3, 8.73, 73.03, 7.33, 8.073.

Solution: 73.03 7 8.73 > 8.073 7 7.33 7 7.3.

(ii) 3.3, 3.03, 30.3, 30.03, 3.003 Solution: 30.3730.0373.373.0373.003.

* Rules to follow: Comparing decimals.

Q.(1) Compare 63.84 and 57.98

Which number is greater or Smaller?

Solution: (i) Compare their Whole-number parts.

63757

57. I whole number parts.

6. 63.84>57.98.

Q.(ii) Compare 24.7 and 24.58.

Zolution: The Whole-number pasts are equal.

24.7, 24.58 Whole number whole number.

Whole numbers are equal 24=24

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-> Now check: first decimal parts.
clearly. 7 tenths > 5 tenths.

24.70 7 24.58 7 tentas>5 tenths.

·· 24.7724.58.

* Follow the Samb. rules for finding or Solving ascending order and descending order.

CHAPTER-7 DECEMALS

Exercise - 7B. Pageno-118

Convert each of the following into a fraction in its simplest form:

Solution:
$$\frac{6}{10}^3 = \frac{3}{5}$$

Solution:
$$\frac{8}{10} = \frac{4}{5}$$

Solution:
$$\frac{15}{100} = \frac{3}{20}$$

5. 0.48

Solution:
$$\frac{48}{100} = \frac{12}{2}$$



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Convert each of the following into a decional.

$$\frac{17.}{10} = 2.3$$

$$21) \frac{21415}{1000} = 21.415$$

$$\frac{5}{18.0}$$
 $\frac{3.6}{30}$

Solution: 53

* Convert each of the following as a mixed fraction.

$$10 \quad 16.5 = 16 \frac{8}{10} = 16 \frac{1}{2}$$

$$\frac{31}{40}$$

= 3,000 more innolation of a multiple of the



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Exercise -7B - P-118

33. Using decemals express.

(i) 8 kg 640g en Kilograms.

Solution - 8 kg 640g

 $= 8 \text{ kg} + \frac{640}{1000} \text{ kg} \left[1 \text{ kg} = 1000 \text{ g} \right]$

= 8 kg + 0.640 kg

= 8.640 kg.

34. Using decimals, express

(i) 4 km 365 m in Kilometres

Solution - 4km 365 m

 $=4 \text{ km} + \frac{365}{1000} \text{ km} \quad [1 \text{ km} = 1000 \text{ m}]$

 $= 4 \, \text{km} + 0.365 \, \text{km}$

= 4.365 Km? 8.0 8 + 8 8 =

(ib) 270m en Kilometres.

Solution - 270m

= 270 km sing se mailules

= 0,270 Km

(V) 35m in Kilometres

Solution - 35m

 $=\frac{35}{1000}$ km =0.035 km.

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35. Using decimals express (11) 8 kg 96g en Kilograms. Solution: -8 kg 96g = 8 kg + 96 kg = 8 kg + 0.096 kg = 8.096 kg. mil m 238 mil (1) 36. Using decimals, express. (i) 2 18 and 25 paise in rupees. Solution: 218 + 225 [1 rupee = 100 paise] = 218+ 20,25 A = 718.25. zarfamalist na mote (1) (iii) 32 paire in rupees. Solution; 32 paise

= 2 32 100 mex 0 kg, 0 = \$0.32 monals no mode (v)

P-120 Exercise 7C

Add the following decimals:

1) 9.6, 14.8, 37 and 5.9

$$Sof: 9.6$$
 14.8
 37.0
 $+$
 5.9
Ans:-67.3

67.3 Ans: 67.3

Distantifulgamered by tard = 36km 235m 2). 23.7, 106.94, 68.9 and 29.5

Ans - 229,04

7. 4.37, 9.638, 17.007 and 6.8

Ans: 37.815

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11. Ramesh covers 36km 235m by taxi, 4km 85m by rickshaw and 1km 80mon foot. What is the total distance covered by him?

Solution: Distance covered by fami = 36km 235m Distance covered by rickshow = 4km 85m Distance covered by foot = 1 km 8 m.

Total distance covered = 36.235 km 4.085 km 1.080 Km

41.400 Km

Hence, Total déstance covered by Ramesh is 41 km \$00 m



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(13) Ramu bought 2m 70cm cloth for his shirt and 2m 60cm cloth for his pyjamas. Find the total Length of cloth bought by him. Solution

Length of his shirt = 2 m 70 cm Length of his pyjamas = 2 m 60 cm Total length of cloth = 2.70 m + 2.60 m 5.30 m

Hence, The total length of cloth bought by Ramu is 5.30m or 5m30cm

Exercise-7D P-122

Subtract:

1. 27.86 from 53.74

801%- 53.74 - 27.86

25.88 Ans:- 25.88

2. 64.98 from 103.87 = 110.45 - 58,678 - 6.09 - 51.778 - 6.09

Sol: 103.87 - 64.98

38.89 Ans: - 38.89

3. 59.63 from 92.4

Sol: 92.40 - 59.63

32.77 Ans: 32.77

8. 458.573 from 600

200.000 - 458.573 141.427

S:- 141.427



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Simplify: 11. 37.6+72.85-58.678-6.09 = 110.45-58.678-6.09 - 51.772 - 6.09 = 45.682 Ans :- 38.80

P8 88110.450 - 58.678 4.80 mo 51.772 51.772 - 6.090 45.682 FF. 28 - 92.77

741.487

 $\begin{array}{rcl}
(12) & 75.3 - 104.645 + 178.96 - 47.9 \\
& 801 = 75.3 + 178.96 - 104.645 - 47.9 \\
& = 254.26 - 104.645 - 47.9 \\
& = 149.615 - 47.9 \\
& = 101.715
\end{array}$ $\begin{array}{rcl}
& 75.3 - 104.645 + 178.96 - 47.9 \\
& + 75.30 \\
& 254.26 \\
& - 254.26 \\
& - 104.645 \\
\hline
& 149.615 \\
& - 47.900 \\
\hline
& 101.715
\end{array}$

 $\begin{array}{l} (13.) \ 213.4 - 56.84 - 11.87 - 16.087 \\ \text{Sof} \ = \ 156.56 - 11.87 - 16.087 \\ = \ 144.69 - 16.087 \\ = \ 128.603 \end{array}$

- 56.84 156.56 156.56 11.87 144.69 - 144.690 - 16.087 128.603

213,40

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 $\begin{array}{l} (14.) \quad 76.3 - 7.666 - 6.77 \\ 801 = 76.3 - 7.666 - 6.77 \\ = 68.634 - 6.77 \\ = 61.864 \end{array}$

76.300 7.666 68.634 - 68.634 - 6.770 61.864

213,40 156,56 186,56 11,87 11,87 144,69 144,69

144.69-16.687

213,4-56.84-11.87-16.087

= 156.56-11.87-16.087