

Class: VII

Date _____

Page 1

Subject: Mathematics

Topic: Chapter-3: Decimals

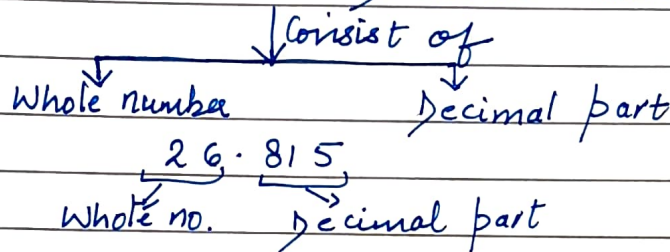
Teacher: Deepthi

The following terms will be used in this particular chapter:

- Decimal fraction: A fraction whose denominator is 10, 100, 1000

eg: $\frac{4}{100}$, $\frac{678}{100}$

- Decimals or decimal numbers



- Like Decimals / Unlike Decimals
(Same number of decimal places) (Don't have same number of decimal places)
- Converting decimal into fraction: Remove the dot from the numerator and write as many zeroes as the decimal place.

e.g.:

$$2.89 = \frac{289}{100}$$

fraction to 100

- Converting a decimal: Put dot (decimal point) on the Numerator to the place, according to the number of zeroes.

Exercise - 3A

Ans 1) Like decimals

(i) 8.1, 9.4, 6.05, 12

→ 8.10, 9.40, 6.05, 12.00

Class: VIII

Subject: Mathematics

Topic: Chapter 3: Decimals

classmate

Date

Page

2

Teacher:

(iii) $6.005, 2, 0.6, 1.78, 14.3$
 $6.005, 2.000, 0.600, 1.780, 14.300$

Ans-2 Expanded form:

(i) $16.74 = 10 + 6 + \frac{7}{10} + \frac{4}{100}$

iv) $2314.57 = 2000 + 300 + 10 + 4 + \frac{5}{10} + \frac{7}{100}$

Ans 3 iv) $4.75 = \frac{475}{100} = \frac{95}{20} = \frac{19}{4}$

Ans 4) fraction into a decimal:

(i) $\frac{243}{100} = 2.43$

(ix) $\frac{43}{8} = \frac{35 \times 125}{8 \times 125} = \frac{4375}{1000} = 4.375$

Exercise - 3B

Soln: Add:

To add or subtract, write the decimal point under decimal.

(iii) $35.67, 18.794, 4.9, 31.82$

$$\begin{array}{r} 35.670 \\ + 18.794 \\ + 4.900 \\ + 31.820 \\ \hline 91.184 \end{array}$$

Ans = 91.184

Class: VII

Subject: Mathematics

Topic: Chapter - 3: Decimals

classmate

Date

Page

Soln 2: Subtract

(ii) 0.75 from 1.3

$$\Rightarrow \begin{array}{r} 1.30 \\ - 0.75 \\ \hline 0.55 \end{array}$$

Soln 3 Take out 6.345 from 8.1

$$\begin{array}{r} 8.100 \\ - 6.345 \\ \hline 1.755 \end{array}$$

Ans = 1.755

Exercise - 3C

Soln 1 Multiply

(i) $6.5 \times 10 = 65$

xii) $0.3 \times 1000 = 300$

Soln 2 Multiply :

(iii) 0.86×14

$$\begin{array}{r} 86 \\ \times 14 \\ \hline 344 \\ 860 \\ \hline 1204 \end{array}$$

Ans = 12.04

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