

NAME:- \_\_\_\_\_ SUB:- \_\_\_\_\_ STD:- \_\_\_\_\_

Topic:- \_\_\_\_\_

### 1. Multiplication of Decimal Fractions.

Example:-

Multiply  $4.3 \times 5$ .

Method I	Method II	Method III
$4.3 \times 5 = 43/10 \times 5/1$	X    4    3/10	43    4.3
$= 43 \times 5/10 \times 1$	5    20    15/10	<u>  X5  </u> <u>  X5  </u>
$= 215/10$	20    1.5	215    21.5
$4.3 \times 5 = 21.5$	$4.3 \times 5 = 20 + 1.5 = 21.5$	

Example 2.

The rate of petrol is 62.32 per litre. Seema Wants to fill two and a half litres of petrol in Her scooter. How many rupees will she have to pay? Which operation is required?



### Method I

$$62.32 \times 2.5 = ?$$

$$\begin{aligned} 62.32 \times 2.5 &= 6232/100 \times 25/10 \\ &= 155800/1000 \\ &= 155.800 \end{aligned}$$

Seema will have to pay 155.80

### Method II

$$\begin{array}{r} 6232 \\ \times 25 \\ \hline 155800 \end{array} \qquad \begin{array}{r} 62.32 \\ \times 2.5 \\ \hline 155.800 \end{array}$$

- First, multiply ignoring the decimal point.
- Then, in the product, starting from the units place, we count as many places as the total decimal places in the multiplicand and multiplier, and place the decimal point before them.

1. If,  $317 \times 45 = 14265$ , then  $3.17 \times 4.5 = ?$

Ans.

2. If,  $503 \times 217 = 109151$ , then  $5.03 \times 2.17 = ?$

Ans.

Multiply.

(1)  $2.7 \times 1.4$

(2)  $6.17 \times 3.9$

(3)  $0.57 \times 2$

(4)  $5.04 \times 0.7$