



Class – 5

Chapter-7

Decimal Fraction

Lecture sheet - 2

Multiplication by Integers

$$\begin{array}{r} 0.3 \\ \times 2 \\ \hline 0.6 \end{array}$$
$$\begin{array}{r} 0.6 \\ \times 9 \\ \hline 5.4 \end{array}$$
$$\begin{array}{r} 0.003 \\ \times 2 \\ \hline 0.006 \end{array}$$
$$\begin{array}{r} 0.008 \\ \times 9 \\ \hline 0.072 \end{array}$$

$$\begin{array}{r} 2.13 \\ \times 6 \\ \hline 12.78 \end{array}$$
$$\begin{array}{r} 5.26 \\ \times 9 \\ \hline 47.34 \end{array}$$
$$\begin{array}{r} 4.3 \\ \times 23 \\ \hline 129 \\ 860 \\ \hline 989 \end{array}$$
$$\begin{array}{r} 2.4 \\ \times 35 \\ \hline 120 \\ 840 \\ \hline 840 \end{array}$$

**Multiply numbers without
Thinking the decimal point**



$$\begin{array}{r} 2.13 \\ \times 6 \\ \hline 1278 \end{array}$$



Put a decimal point at the same place in the multiplicand



$$\begin{array}{r} 2.13 \\ \times 6 \\ \hline 12.78 \end{array}$$

Multiply:

$$\begin{array}{r} 1) 0.05 \\ \times 2 \\ \hline 0.10 \end{array}$$

$$\begin{array}{r} 2) 0.5 \\ \times 4 \\ \hline 2.0 \end{array}$$

$$\begin{array}{r} 3) 0.008 \\ \times 9 \\ \hline 0.072 \end{array}$$

1.Exercise (Do yourself):

- 1) 0.3×2 2) 0.6×9 3) 0.8×5 4) 0.02×3 5) 0.04×3 6) 0.05×2 7) 0.08×5
8) 0.003×2 9) 0.008×9 10) 0.006×5

Multiply vertically:

$$\begin{array}{r} 1) 3.52 \\ \times 9 \\ \hline 31.68 \end{array}$$

$$\begin{array}{r} 2) 0.212 \\ \times 3 \\ \hline 0.636 \end{array}$$

$$\begin{array}{r} 3) 1.23 \\ \times 4 \\ \hline 4.92 \end{array}$$

$$\begin{array}{r} 4) 6.47 \\ \times 28 \\ \hline 5176 \\ \underline{12940} \\ 181.16 \end{array}$$

$$\begin{array}{r} 5) 30.9 \\ \times 23 \\ \hline 927 \\ \underline{6180} \\ 710.7 \end{array}$$

$$\begin{array}{r} 6) 24.5 \\ \times 26 \\ \hline 1470 \\ \underline{4900} \\ 637.0 \end{array}$$

2.Exercise (Do yourself):

Multiply vertically:

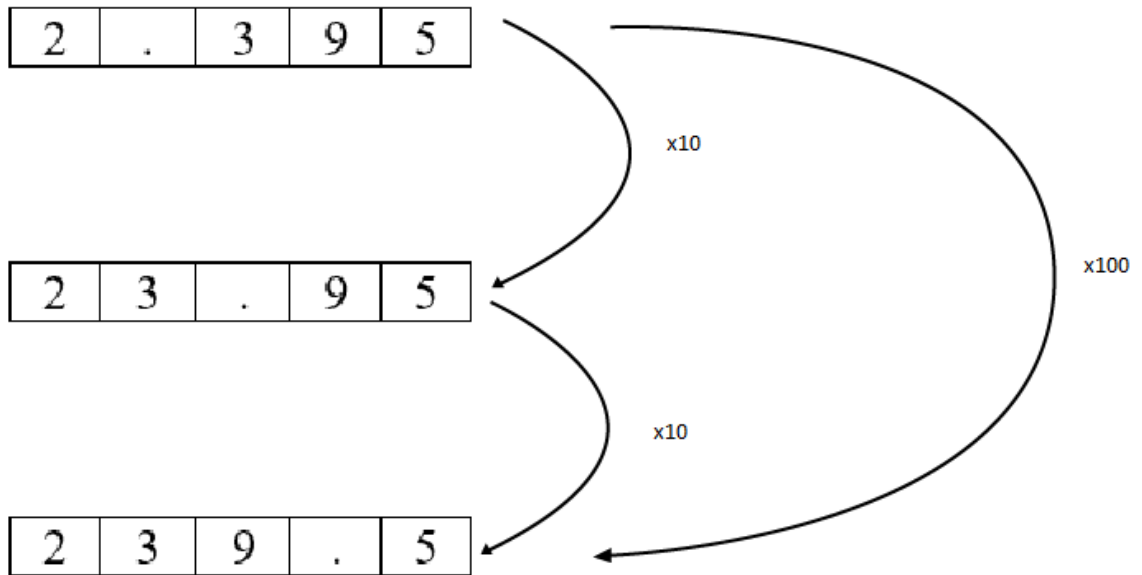
- 1) 3.4×7 2) 6.7×8 3) 7.6×4 4) 8.5×9 5) 4.18×3 6) 5.25×4 7) 4.037×8
8) 3.215×8 9) 2.3×16 10) 4.6×38 11) 7.6×45 12) 16.7×52 13) 4.08×63
14) 5.25×24 15) 2.4×35

Multiplication by 10 and 100

$$\begin{array}{r} 2.395 \\ \times 10 \\ \hline 0000 \\ \underline{23950} \\ 23.950 \end{array}$$

$$\begin{array}{r} 2.395 \\ \times 100 \\ \hline 0000 \\ \underline{00000} \\ \underline{239500} \\ 239.500 \end{array}$$

When Multiplying by 10 and 100, the decimal point moves to the right as many as the number of 0 S.



Multiply by 10 and by 100:

1) 3.48 2) 0.8 3) 0.092

Solution: 1) $3.48 \times 10 = 34.8$
 $3.48 \times 100 = 348.0$
 2) $0.8 \times 10 = 8.0$
 $0.8 \times 100 = 80.0$
 3) $0.092 \times 10 = 0.92$
 $0.092 \times 100 = 9.2$

3.Exercise (Do yourself):

1) 2.45×10 2) 6.3×10 3) 0.021×10 4) 3.748×100 5) 0.9×100 6) 13.7×100

Word Problem

1) There are 4 packets of milk and each packet contains 0.2 litre of milk. How many litres of milk will there be if we put them together?

Solution:

1 packet contains 0.2 litres of milk

4 packet contains (0.2×4) litres of milk

$$= 0.8 \text{ litres of milk}$$

Ans: 0.8 litres of milk

2) There are 5 cups and each cup weighs 0.3 kg. How many kilograms do these 5 cups weigh?

Solution:

1 cup weighs 0.3 kg

5 cup weighs (0.3×5) kg

$$= 1.5 \text{ kg}$$

Ans: 1.5 kg

3) There are 7 packets of milk and each packet contains 0.08L of milk. How many litres of milk are there?

Solution:

1 packet contains 0.08 L of milk

7 packet contains (0.08×7) of milk

$$= 0.56 \text{ L}$$

Ans: 0.56 L

4) A motorcycle runs 0.02 km per second. How many kilometers will it run in 8 seconds?

Solution:

In 1 second a motorcycle runs 0.02 km

In 8 second a motorcycle runs (0.02×8) km

$$= 0.16 \text{ km}$$

Ans: 0.16 km

5) In a class of 75 students, teacher distributes 0.24 metres of tape of each student. How many metres of tape distributed?

Solution:

1 student get 0.24 m of tape

75 students get (0.24×75) m of tape

$$= 18 \text{ m}$$

Ans: 18 m

6) one basket fruit weights 2.565 kg. Find the Weight of 12 baskets of this fruit.

Solution:

1 basket fruit weight 2.565 kg

12 basket fruit weight (2.565×12) kg

$$= 30.78 \text{ kg}$$

Ans: 30.78 kg

7) A packet contains 0.334 litres of milk. How many litres of milk will there be if we have 50 packets?

Solution:

1 packet contains 0.334 litres

50 packet contains (0.334×50) litres

$$= 16.7 \text{ litres}$$

Ans: 16.7 L

Solve book exercise from page – 77

Exercise – 7 (A)

No: 2 , 3 , 4 , 5 ,6,7,8

Solution

1.

1) 0.6 , 2) 5.4 , 3) 4 , 4) 0.06 , 5) 0.12 , 6) 0.1 , 7) 0.4 , 8) 0.006 , 9) 0.072 , 10) 0.03

2.

1) 23.8 , 2) 53.6 , 3) 30.4 , 4) 76.5 , 5) 12.54 , 6) 21 , 7) 32.296 , 8) 25.72 , 9) 36.8 , 10) 174.8 , 11) 342 ,
12) 868.4 , 13) 257.04 , 14) 125 , 15) 84

3.

1) 24.5 , 2) 63 , 3) 0.21 , 4) 37.48 , 5) 90 , 6) 1370