

MONTH : NOVEMBER

SESSION : 1

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 10

CHAPTER NAME : DECIMAL FRACTIONS

SUB-TOPIC : MULTIPLICATION OF DECIMAL FRACTIONS

EXERCISE 10 C & D

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE :

Enable the students

- **To multiply decimal fractions by 10,100,1000 etc.**
- **To multiply decimal fractions by whole numbers and decimal fraction.**



Multiplication by 10, 100, 1000 etc.

Move the decimal
point to the **right**
as to the numbers
of zeros

$$0.256 \times 10 = 2.56$$

$$0.5986 \times 100 = 59.86$$

$$12.256923 \times 1000 = 12256.923$$

Multiplication by a whole number:

Example: I

Multiply **17.25** by **15**

$$\begin{array}{r} 17.25 \\ \times \quad 15 \\ \hline 8625 \\ 17250 \\ \hline \end{array}$$

Step I: Multiply

258.75

Step II: Put the decimal point exactly before the digits given in the question.

before 2 digits



Multiplication by a decimal fraction:

Example: I

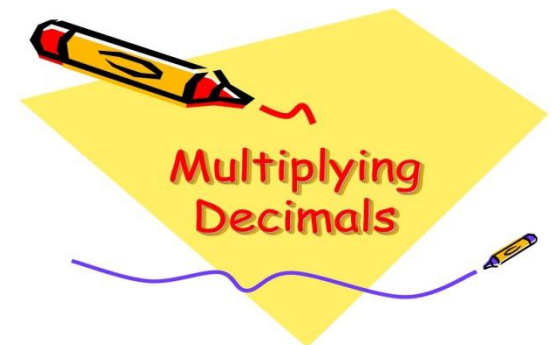
Multiply **7.25** by **0.5**

$$\begin{array}{r} 7.25 \\ \times 0.5 \\ \hline 3.625 \end{array}$$

← 2 decimal places

← 1 decimal place

← 3 decimal places



EXERCISE 10 [C]

I. Multiply the following by 10, 100 and 1000.

a. **0.487** = $0.487 \times 10 = 4.87$

$0.487 \times 100 = 48.7$

$0.487 \times 1000 = 487$

b. **0.5671** = $0.5671 \times 10 = 5.671$

$0.5671 \times 100 = 56.71$

$0.5671 \times 1000 = 567.1$

c. **6.063** = $6.063 \times 10 = 60.63$

$6.063 \times 100 = 606.3$

$6.063 \times 1000 = 6063$

d. **2.4861** = $2.4861 \times 10 = 24.861$

$2.4861 \times 100 = 248.61$

$2.4861 \times 1000 = 2486.1$

e. **51.835** = $51.835 \times 10 = 518.35$

$51.835 \times 100 = 5183.5$

$51.835 \times 1000 = 51835$



EXERCISE 10 [D]

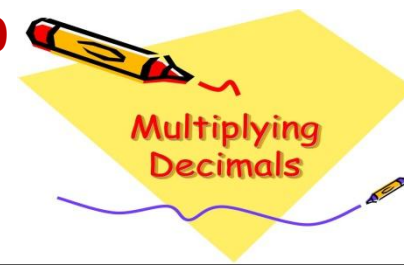
I. Find the product

$$\begin{array}{r} \text{a.} \quad 1.88 \\ \times \quad 16 \\ \hline 1128 \\ 1880 \\ \hline \mathbf{30.08} \end{array}$$

$$\begin{array}{r} \text{b.} \quad 16.32 \\ \times \quad 8 \\ \hline \mathbf{130.56} \end{array}$$

$$\begin{array}{r} \text{c.} \quad 41.08 \\ \times \quad 32 \\ \hline 8216 \\ 123140 \\ \hline \mathbf{1314.56} \end{array}$$

$$\begin{array}{r} \text{d.} \quad 4.032 \\ \times \quad 85 \\ \hline 20160 \\ 322560 \\ \hline \mathbf{342.720} \end{array}$$

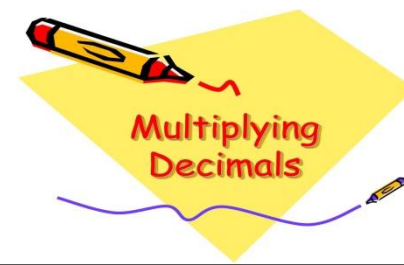


EXERCISE 10 [D]

I. Find the product

$$\begin{array}{r} \text{e.} \quad 0.47 \\ \times \quad 375 \\ \hline \quad \quad 235 \\ \quad 3290 \\ 14100 \\ \hline \mathbf{176.25} \end{array}$$

$$\begin{array}{r} \text{f.} \quad 2.008 \\ \times \quad 150 \\ \hline \quad \quad \quad 0000 \\ \quad 100400 \\ 200800 \\ \hline \mathbf{301.200} \\ \\ \mathbf{= 301.2} \end{array}$$



EXERCISE 10 [D]

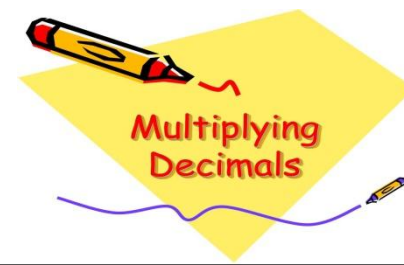
2 . Find the product

$$\begin{array}{r} \text{a.} \quad 18.4 \\ \times \quad 0.12 \\ \hline \quad \quad 368 \\ \quad 1840 \\ \hline \quad \quad \quad \mathbf{2.208} \end{array}$$

$$\begin{array}{r} \text{b.} \quad 0.3146 \\ \times \quad 0.05 \\ \hline \quad \quad \quad \mathbf{0.01573} \end{array}$$

$$\begin{array}{r} \text{c.} \quad 1.32 \\ \times \quad .0008 \\ \hline \quad \quad \quad \mathbf{0.001056} \end{array}$$

$$\begin{array}{r} \text{d.} \quad 0.004 \\ \times \quad .064 \\ \hline \quad \quad \quad \mathbf{0.000256} \end{array}$$



EXERCISE 10 [D]

2 . Find the product

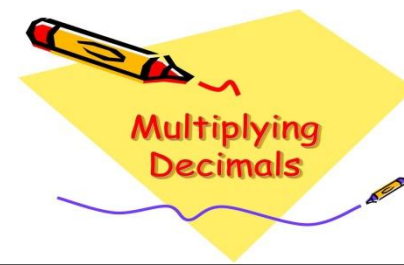
$$e. \quad 1.18 \times 0.046 \times 0.7$$

$$= 1.18 \\ \times 0.46$$

$$\begin{array}{r} \hline 708 \\ 4720 \\ \hline 0.5428 \end{array}$$

$$0.5428 \\ \times 0.7$$

$$\hline 0.037996$$



EXERCISE 10 [D]

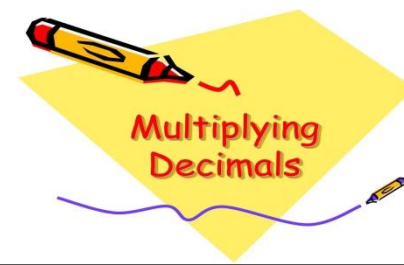
Q.3 If $324 \times 12 = 3888$, then find the product without performing multiplication.

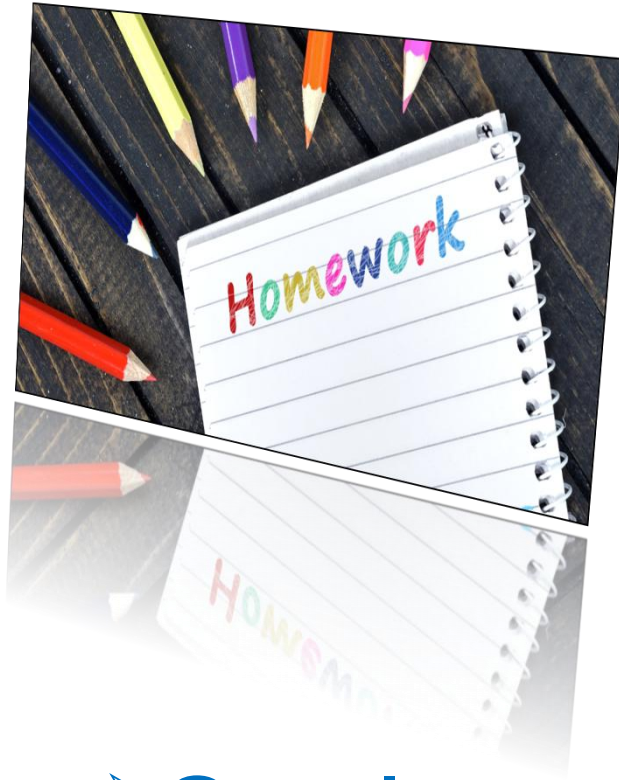
a) $3.24 \times 12 = 38.88$

b) $32.4 \times 12 = 388.8$

c) $0.324 \times 12 = 3.888$

d) $0.00324 \times 12 = 0.03888$





- **Complete exercise I 0 C and Exercise I 0 D in the note book.**



Learning Outcomes

Students are able to multiply decimal fractions by 10, 100, 1000 and whole number.

THANKING YOU
ODM EDUCATIONAL GROUP