

Ch-10-

Ex-10(c) Decimal Fractions

1) Multiply the following decimal fractions by
(a) 10; (b) 100 (c) 1000.

$$\begin{aligned} \text{a) } 0.487 &= 0.487 \times 10 = 4.87 & 0.487 \times 100 &= 48.7 \\ 0.487 \times 1000 &= 487 \end{aligned}$$

$$\begin{aligned} \text{b) } 0.5671 &= 0.5671 \times 10 = 5.671 & 0.5671 \times 100 &= 56.71 \\ 0.5671 \times 1000 &= 567.1 \end{aligned}$$

$$\begin{aligned} \text{c) } 6.063 &= 6.063 \times 10 = 60.63 & 6.063 \times 100 &= 606.3 \\ 6.063 \times 1000 &= 6063 \end{aligned}$$

$$\begin{aligned} \text{d) } 2.4861 &= 2.4861 \times 10 = 24.861 \\ 2.4861 \times 100 &= 248.61 & 2.4861 \times 1000 &= 2486.1 \end{aligned}$$

$$\begin{aligned} \text{e) } 51.835 &= 51.835 \times 10 = 518.35 \\ 51.835 \times 100 &= 5183.5 & 51.835 \times 1000 &= 51835 \end{aligned}$$

Ex 10 (D)

1) Find the product.

a.

$$\begin{array}{r} \textcircled{5} \textcircled{2} \\ 1.88 \\ \times 16 \\ \hline 1128 \\ + 1880 \\ \hline 30.08 \end{array}$$

b.

$$\begin{array}{r} \textcircled{5} \textcircled{2} \textcircled{0} \\ 16.32 \\ \times 8 \\ \hline 130.56 \end{array}$$

c.

$$\begin{array}{r} \textcircled{0} \\ 41.08 \\ \times 32 \\ \hline 8216 \\ + 123240 \\ \hline 1314.56 \end{array}$$

d.

$$\begin{array}{r} \textcircled{00} \\ 4.032 \\ \times 85 \\ \hline 20160 \\ + 322560 \\ \hline 342.720 \end{array}$$

2) Find the product

a. ①

$$\begin{array}{r} 18.4 \\ \times 10.12 \\ \hline 368 \\ + 1840 \\ \hline 2.208 \end{array}$$

b.

$$\begin{array}{r} 0.3146 \\ \times 0.05 \\ \hline 0.01573 \end{array}$$

c.

$$\begin{array}{r} \text{● ●} \\ 1.32 \\ \times 0.0008 \\ \hline 1056 \end{array} \qquad \begin{array}{r} 1.32 \\ \times 0.0008 \\ \hline 0.001056 \end{array}$$

d.

$$\begin{array}{r} 0.004 \\ \times 0.064 \\ \hline 0.000256 \end{array}$$

Ex-10(c)

1) Multiply the following decimal fractions by
(a) 10; (b) 100; (c) 1000

f) $123.6 = 123.6 \times 10 = 1236$ $123.6 \times 100 = 12360$
 $123.6 \times 1000 = 123600$

g) $0.0009 = 0.0009 \times 10 = 0.009$ $0.0009 \times 100 = 0.09$
 $0.0009 \times 1000 = 0.9$

h) $15.002 = 15.002 \times 10 = 150.02$ $15.002 \times 100 = 1500.2$
 $15.002 \times 1000 = 15002$

2) Find the values of the following :

a) $0.4837 \times 1000 = 483.7$

b) $0.389 \times 10000 = 3890$

c) $123.8 \times 100 = 12380$

d) $3.208 \times 10 = 32.08$

e) $0.0007 \times 100 = 0.07$

f) $3.017 \times 10 = 30.17$

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$$g) 1008.2 \times 100 = 100820$$

$$h) 0.0309 \times 1000 = 30.9$$

Ex-10(D)

i) Find the product:

e)

$$\begin{array}{r} 0.47 \\ \times 3.75 \\ \hline 235 \\ 3290 \\ +13100 \\ \hline 176.25 \end{array}$$

f)

$$\begin{array}{r} 2.008 \\ \times 150 \\ \hline 0000 \\ 100400 \\ +200800 \\ \hline 301.200 \end{array}$$

g)
$$\begin{array}{r} 0.4262 \\ \times \quad 11 \\ \hline 04262 \\ +042620 \\ \hline 04.6882 \end{array}$$

h)
$$\begin{array}{r} 0.487 \\ \times \quad 240 \\ \hline 0000 \\ 19480 \\ +097400 \\ \hline 116.880 \end{array}$$

i)
$$\begin{array}{r} 50.05 \\ \times \quad 50 \\ \hline 0000 \\ +250250 \\ \hline 2502.50 \end{array}$$

j)
$$\begin{array}{r} 100.01 \\ \times \quad 200 \\ \hline 00000 \\ 000000 \\ +2000200 \\ \hline 20002.00 \end{array}$$

2) Find the product :

e) $1.18 \times 0.46 \times 0.07$

<u>0.46</u>	<u>0.46</u>	<u>0.0322</u>
$\times 0.07$	$\times 0.07$	$\times 1.18$
322	322	02576
0000	0000	003220
$+0000$	$+00000$	$+0032200$
<u>0.0322</u>	<u>0.0322</u>	<u>0.037996</u>

~~$\times 1.18$~~

~~02576~~

~~003220~~

~~0032200~~

f) $0.1 \times 1 \times 0.1$

<u>0.1</u>	<u>0.1</u>
$\times 1$	$\times 0.1$
0.1	01
	$+000$
	<u>0.01</u>

a) $3.48 \times 16 \times 0.5$

$$\begin{array}{r}
 3.48 \\
 \times 0.5 \\
 \hline
 1740 \\
 + 0000 \\
 \hline
 1740 \\
 \times 16 \\
 \hline
 10440 \\
 17400 \\
 \hline
 17400
 \end{array}$$

$$\begin{array}{r}
 1.740 \\
 \times 16 \\
 \hline
 10440 \\
 + 17400 \\
 \hline
 27840
 \end{array}$$

b) $0.03 \times 0.03 \times 0.03$

$$\begin{array}{r}
 0.03 \\
 \times 0.03 \\
 \hline
 009 \\
 000 \\
 + 00000 \\
 \hline
 0.0009
 \end{array}$$

$$\begin{array}{r}
 0.0009 \\
 \times 0.03 \\
 \hline
 00027 \\
 000000 \\
 + 0000000 \\
 \hline
 0.000027
 \end{array}$$

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Ex-10(D)

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

- Ans- a) $3.24 \times 12 = 38.88$
b) $32.4 \times 12 = 388.8$
c) $0.324 \times 12 = 3.888$
d) $0.00324 = 0.03888$

Ex-10(E)

i) Divide the following by 10, 100, 1000

	10	100	1000
a. $12 =$	1.2	0.12	0.012

b. $75 =$	7.5	0.75	0.075
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c. $1767 =$	176.7	17.67	1.767
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d. $89.76 =$	8.976	0.8976	0.08976
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e. $201.2 =$	20.12	2.012	0.2012
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f. $0.89 =$	0.089	0.0089	0.00089
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g. $0.08 =$	0.008	0.0008	0.00008
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$$h) 0.0076 = 0.00076 \quad 0.000076 \quad 0.00000076$$

2) write down the values of :

$$a. 64.83 \div 100 = \frac{6483}{100} \div 100 = \frac{6483}{100} \times \frac{1}{100}$$

$$= \frac{6483}{10000} = 0.6483$$

$$b. 328 \div 1000 = 0.328$$

$$c. 17.48 \div 10 = \frac{1748}{10} \div 10 = \frac{1748}{10} \times \frac{1}{10}$$

$$= \frac{1748}{1000} = 1.748$$

$$d. 217.4 \div 100 = \frac{2174}{100} \div 100 = \frac{2174}{100} \times \frac{1}{100}$$

$$= \frac{2174}{10000} = \frac{2174}{10000} = 2.174$$

$$e. 4648 \div 1000 = 4.648$$

$$f. 547.8 \div 1000 = \frac{5478}{1000} \div 1000 = \frac{5478}{1000} \times \frac{1}{1000}$$

$$= \frac{5478}{100000} = 0.05478$$

$$g. 3.6 \div 10000 = \frac{36}{10000} \div 10000 = \frac{36}{10000} \times \frac{1}{10000}$$

$$= \frac{36}{1000000} = 0.000036$$

$$h. 47.6 \div 10,000 = \frac{476}{10000} \div 10000 = \frac{476}{10000} \times \frac{1}{10000}$$

$$= \frac{476}{1000000} = 0.000476$$

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Ex 10 (D)

Q.4) If $614.6 = 5531.4$, then find the product of each of the following without actually doing the multiplication.

a) $61.46 \times 9 = 553.14$

b) $0.6146 \times 9 = 5.5314$

c) $6146 \times 9 = 55314$

d) $6.146 \times 9 = 55.314$

e) $0.06146 \times 9 = 0.55314$

Q.5) If $2.48 \times 6 = 14.88$ then find the product without actually doing the multiplication when 2.48 is multiplied by

a) 60 = 148.8

b) 600 = 1488

c) 0.6 = 1.488

d) 0.06 = 0.1488

e) 6000 = 14880

Q.6) If $56.2 \times 7 = 393.4$ then find the product of each of the following without actually doing the multiplication.

a) $0.567 \times 7 = 3.934$

b) $562 \times 7 = 3934$

c) $0.0562 \times 7 = 0.3934$

d) $5.62 \times 7 = 39.34$