

Hw
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Ex 10(c)

1. Multiply the following decimal fraction
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. 0.4837×1000

$$= \frac{4837}{10000} \times 1000 = 483.7$$

b. 0.389×10000

$$= \frac{389}{1000} \times 10000 = 3890$$

c. 123.8×100

$$= \frac{1238}{10} \times 100 = 12380$$

d. 3.208×10

$$= \frac{3208}{1000} \times 10 = 32.08$$

e. 0.0007×100

$$= \frac{7}{10000} \times 100 = 0.07$$

f. 3.017×10

$$= \frac{3017}{1000} \times 10 = 30.17$$

g. 1008.2×100

$$= \frac{10082 \times 100}{10} = 100820$$

h. 0.0309×1000

$$= \frac{309}{10000} \times 1000 = 30.9$$

Ex 10 (D)

1. Find the product :

g. 0.4262×11

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

h. 0.487×240

$$\begin{array}{r} 0.487 \\ \times 240 \\ \hline 000000 \\ 19480 \\ +97400 \\ \hline \underline{116.880} \end{array}$$

i. 50.05×50

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

j. 100.01×200

$$\begin{array}{r} ~~100.01~~ \\ 100.01 \\ \times 200 \\ \hline 00000 \\ 000000 \\ +2000200 \\ \hline \underline{2000200} \end{array}$$

2. Find the product:

a. 18.4×0.12

$$\begin{array}{r} 18.4 \\ \times 0.12 \\ \hline 0368 \\ 184 \times \\ + 000 \times \times \\ \hline 02.208 \end{array}$$

b. 0.3146×0.05

$$\begin{array}{r} 0.3146 \\ \times 0.05 \\ \hline 15730 \\ 000000 \\ + 0000800 \\ \hline 0.015730 \end{array}$$

c. 1.32×0.0008

$$\begin{array}{r} 0.0008 \\ \times 1.32 \\ \hline 00016 \\ 000240 \\ + 0000800 \\ \hline 0.001056 \end{array}$$

d. 0.004×0.064

$$\begin{array}{r} 0.004 \\ \times 0.064 \\ \hline 0016 \\ 00240 \\ 000000 \\ + 0000000 \\ \hline 0.000256 \end{array}$$

e. $1.18 \times 0.46 \times 0.07$

$$\begin{array}{r}
 1.18 \\
 \times 0.46 \\
 \hline
 708 \\
 4720 \\
 + 00000 \\
 \hline
 0.5428
 \end{array}$$

$$\begin{array}{r}
 0.5428 \\
 \times 0.07 \\
 \hline
 37996 \\
 000000 \\
 + 0000000 \\
 \hline
 0.037996
 \end{array}$$

f. $0.1 \times 1 \times 0.1$

$$\begin{array}{r}
 0.1 \\
 \times 1 \\
 \hline
 0.1
 \end{array}
 \qquad
 \begin{array}{r}
 0.1 \\
 \times 0.1 \\
 \hline
 01 \\
 + 000 \\
 \hline
 0.01
 \end{array}$$

g. $3.48 \times 16 \times 0.5$

$$\begin{array}{r}
 \textcircled{2} \textcircled{9} \\
 3.48 \\
 \times 16 \\
 \hline
 2088 \\
 + 3480 \\
 \hline
 55.68
 \end{array}$$

$$\begin{array}{r}
 55.68 \\
 \times 0.5 \\
 \hline
 27840 \\
 + 00000 \\
 \hline
 27.840
 \end{array}$$

h. $0.03 \times 0.03 \times 0.03$

$\begin{array}{r} 0.03 \\ \times 0.03 \\ \hline 009 \\ 0000 \\ + 00000 \\ \hline 0.0009 \end{array}$	$\begin{array}{r} 0.0009 \\ \times 0.03 \\ \hline 00027 \\ 000000 \\ + 0000000 \\ \hline 0.000027 \end{array}$
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3. If $324 \times 12 = 3888$, then find the product of each of the following without actually performing the multiplication.

a. 3.24×12

$$\begin{array}{r} 324 \times 12 \\ \hline 100 \end{array}$$

$$= \frac{3888}{100}$$

$$= 38.88$$

b. 32.4×12

$$= \frac{324 \times 12}{10}$$

$$= \frac{3888}{10} = 388.8$$

c. 0.324×12

$$\frac{324 \times 12}{1000}$$

$$= \frac{3888}{1000} = 3.888$$

d. 0.00324×12

$$\frac{324 \times 12}{100000}$$

$$= \frac{3888}{100000} = 0.03888$$

4. If $614.6 \times 9 = 55314$, then find the product of each of the following without actually multiply.

a. $61.46 \times 9 = \frac{6146}{100} \times 9 = \frac{55314}{100} = 553.14$

b. $0.6146 \times 9 = \frac{6146}{10000} \times 9 = \frac{55314}{10000} = 5.5314$

c. $6146 \times 9 = 55314$

d. $6.146 \times 9 = \frac{6146}{1000} \times 9 = \frac{55314}{1000} = 55.314$

e. $0.06146 \times 9 = \frac{6146}{100000} \times 9 = \frac{55314}{100000} = 0.55314$

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

a. 60

$$2.48 \times 60 = \frac{248}{10} \times 60 = 1488$$

b. 600

$$2.48 \times 600 = \frac{248}{100} \times 600 = 1488$$

c. 0.6

$$2.48 \times 0.6 = \frac{248}{100} \times \frac{6}{10} = \frac{1488}{1000} = 1.488$$

d. 0.06

$$2.48 \times 0.06 = \frac{248}{100} \times \frac{6}{100} = \frac{1488}{10000} = 0.1488$$

e. 6000

$$2.48 \times 6000 = \frac{248}{100} \times 6000 = 14880$$

6. If $562 \times 7 = 3934$ then find the product of each of the following without actually doing the multiply.

a. 0.562×7

$$\frac{562 \times 7}{1000} = \frac{3934}{1000} = 3.934$$

b. $562 \times 7 = 3934$

c. 0.0562×7

$$\frac{562 \times 7}{10000} = \frac{3934}{10000} = 0.3934$$

d. 5.62×7

$$\frac{562 \times 7}{100} = \frac{3934}{100} = 39.34$$