

2/11/21

## Decimal fraction

### Exercise 10 (c)

1) Multiply the following decimal fraction by

a) 10   b) 100   c) 1000

a)  $0.487$

c)  $6.063$

a)  $0.487 \times 10 = 4.87$    a)  $6.063 \times 10 = 60.63$

b)  $0.487 \times 100 = 48.7$    b)  $6.063 \times 100 = 606.3$

c)  $0.487 \times 1000 = 487$    c)  $6.063 \times 1000 = 6063$

b)  $0.5671$

d)  $2.4861$

a)  $0.5671 \times 10 = 5.671$    a)  $2.4861 \times 10 = 24.861$

b)  $0.5671 \times 100 = 56.71$    b)  $2.4861 \times 100 = 248.61$

c)  $0.5671 \times 1000 = 567.1$    c)  $2.4861 \times 1000 = 2486.1$

e) 51.835

g) 0.0009

a)  $51.835 \times 10 = 518.35$

a)  $0.0009 \times 10 = 0.009$

b)  $51.835 \times 100 = 5183.5$

b)  $0.0009 \times 100 = 0.09$

c)  $51.835 \times 1000 = 51835$

c)  $0.0009 \times 1000 = 0.9$

f) 123.6

h) 15.002

a)  $123.6 \times 10 = 1236$

a)  $15.002 \times 10 = 150.02$

b)  $123.6 \times 100 = 12360$

b)  $15.002 \times 100 = 1500.2$

c)  $123.6 \times 1000 = 123600$

c)  $15.002 \times 1000 = 15002$

2) Find the values

a)  $0.4837 \times 1000 = 483.7$

b)  $0.389 \times 10000 = 3890$

c)  $123.8 \times 100 = 12380$

d)  $3208 \times 10 = 32080$

e)  $0.0007 \times 100 = 0.07$

f)  $3.017 \times 10 = 30.17$

g)  $1008.2 \times 100 = 100820$

h)  $0.309 \times 1000 = 309$

### Exercise 10(D)

1) Find the product

$$\begin{array}{r} \text{a) } 1.88 \\ \times 16 \\ \hline 1128 \\ + 1880 \\ \hline 30.08 \end{array}$$

$$\begin{array}{r} \text{c) } 41.08 \\ \times 32 \\ \hline 8216 \\ + 123740 \\ \hline 1313.56 \end{array}$$

$$\begin{array}{r} \text{b) } 16.32 \\ \times 8 \\ \hline 130.56 \end{array}$$

$$\begin{array}{r} 4.032 \\ \times 85 \\ \hline 20160 \\ + 322560 \\ \hline 3426.720 \end{array}$$

$$\begin{array}{r}
 e) \quad 0.47 \\
 \times \quad 375 \\
 \hline
 232 \\
 329 \times \\
 + 141 \times \times \\
 \hline
 176.25
 \end{array}$$

$$\begin{array}{r}
 f) \quad 2.008 \\
 \times \quad 150 \\
 \hline
 0000 \\
 10040 \times \\
 + 2008 \times \times \\
 \hline
 301200
 \end{array}$$

$$\begin{array}{r}
 g) \quad 0.4262 \\
 \times \quad 11 \\
 \hline
 04266 \\
 + 4266 \times \\
 \hline
 46926
 \end{array}$$

$$\begin{array}{r}
 h) \quad 0.487 \\
 \times \quad 240 \\
 \hline
 0000 \\
 1948 \times \\
 + 974 \times \times \\
 \hline
 116880
 \end{array}$$

$$\begin{array}{r}
 i) \quad 50.05 \\
 \times \quad 50 \\
 \hline
 0000 \\
 25025 \times \\
 \hline
 2502.50
 \end{array}$$

$$\begin{array}{r}
 j) \quad 100.01 \\
 \times \quad 200 \\
 \hline
 00000 \\
 00000 \times \\
 20002 \times \times \\
 \hline
 20002.00
 \end{array}$$

2) Find the product

a)  $18.4 \times 0.12$

$$18.4 \times 0.12 = \frac{184}{10} \times \frac{12}{100} = \frac{2208}{1000} = 2.208$$

b)  $0.3146 \times 0.05$

$$0.3146 \times 0.05 = \frac{3146}{10000} \times \frac{5}{100} = \frac{15730}{1000000} = 0.01573$$

c)  $1.32 \times 0.0008$

$$1.32 \times 0.0008 = \frac{132}{100} \times \frac{8}{10000} = \frac{1056}{1000000} = 0.001056$$

d)  $0.004 \times 0.064$

$$0.004 \times 0.064 = \frac{4}{1000} \times \frac{64}{1000} = \frac{256}{1000000} = 0.000256$$

e)  $1.18 \times 0.46 \times 0.07$

$$1.18 \times 0.46 = \frac{118}{100} \times \frac{46}{100} = \frac{5428}{10000} = 0.5428$$

$$0.5428 \times 0.07 = \frac{5428}{10000} \times \frac{7}{100} = \frac{37996}{1000000} = 0.037996$$

f)  $0.1 \times 1 \times 0.1$

$$0.1 \times 1 = 0.1$$

$$0.1 \times 0.1 = 0.01$$

g)  $3.48 \times 16 \times 0.5$

$3.48 \times 16$

$$\begin{array}{r} 3.48 \\ \times 16 \\ \hline 2088 \\ 348 \times \\ \hline 55.68 \end{array}$$

$55.68 \times 0.5 = 27.84$

h)  $0.03 \times 0.03 \times 0.03$

$0.03 \times 0.03 = 0.0009$

$0.0009 \times 0.03 = 0.000027$

3) If  $324 \times 12 = 3888$ , then find the product of each of the following without actually performing the multiplication

a)  $3.24 \times 12 = 38.88$     b)  $32.4 \times 12 = 388.8$

c)  $0.324 \times 12 = 3.888$     d)  $0.00324 \times 12 = 0.03888$

4) If  $614.6 \times 9 = 5531.4$ , then find the product of each of the following without actually doing multiplication

a)  $61.46 \times 9 = 553.14$     b)  $0.6146 \times 9 = 5.314$

c)  $6146 \times 9 = 55314$

d)  $6.146 \times 9 = 55.314$

e)  $0.06146 \times 9 = 0.5314$

5) If  $2.48 \times 6 = 14.88$  then find out the product without actually doing the multiplication

when 2 zeros multiplied

a)  $60 = 148.8$

e)  $6000 = 14880$

b)  $600 = 1488$

c)  $0.6 = 1.488$

d)  $0.06 = 0.1488$

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

a)  $0.562 \times 7 = 3.934$

b)  $562 \times 7 = 3934$

c)  $0.0562 \times 7 = 0.3934$

d)  $5.62 \times 7 = 39.34$