

## EXERCISE 15(C)

### Question 1.

Multiply :

(i) 5.6 and 8

(ii) 38.46 and 9

(iii) 0.943 and 62

(iv) 0.0453 and 35

(v) 7.5 and 2.5

(vi) 4.23 and 0.8

(vii) 83.54 and 0.07

(viii) 0.636 and 1.83

(ix) 6.4564 and 1000

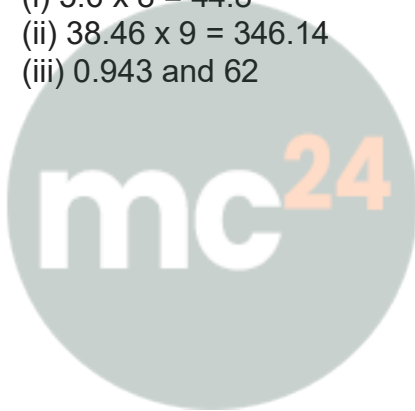
(x) 0.076 and 100

**Solution:**

(i)  $5.6 \times 8 = 44.8$

(ii)  $38.46 \times 9 = 346.14$

(iii) 0.943 and 62



**Myclass24**  
Your Class. Your Pace.

$$\begin{array}{r}
 943 \\
 \times 62 \\
 \hline
 1886 \\
 5658 \times \\
 \hline
 58466
 \end{array}$$

Since,  $.943 \times 62 = 58.466$

$\therefore 0.943 \times 62 = 58.466$

(iv)

$$\begin{array}{r}
 453 \\
 \times 35 \\
 \hline
 2265 \\
 1359 \times \\
 \hline
 15855
 \end{array}$$

Since,  $453 \times 35 = 15855$

$\therefore 0.0453 \times 35 = 1.5855$

(v)  $7.5$  and  $2.5$

$$\begin{array}{r}
 75 \\
 \times 25 \\
 \hline
 375 \\
 150 \times \\
 \hline
 1875
 \end{array}$$



**Myclass24**  
Your Class. Your Pace.

Since,  $75 \times 25 = 1875$

$$\therefore 7.5 \times 2.5 = \mathbf{18.75}$$

(vi)  $4.23$  and  $0.8$

Since,  $423 \times 8 = 3384$

$$\therefore 4.23 \times 0.8 = \mathbf{3.384}$$

(vii)  $83.54$  and  $0.07$

Since,  $8354 \times 7 = 58478$

$$\therefore 83.54 \times 0.07 = \mathbf{5.8478}$$

(viii)  $0.636$  and  $1.83$

$$\begin{array}{r} 636 \\ \times 183 \\ \hline 1908 \\ 5088 \times \\ 636 \times \times \\ \hline 116388 \end{array}$$

Since,  $636 \times 183 = 116388$

$$\therefore 0.636 \text{ and } 1.83 = \mathbf{1.16388}$$

(ix)  $6.4564 \times 1000$

Since,  $64564 \times 1000 = 64564000$

$$\therefore 6.4564 \times 1000 = \mathbf{6456.4}$$

(x)  $0.076$  and  $100$

Since,  $76 \times 100 = 7600$

$$\therefore 0.076 \times 100 = \mathbf{7.6}$$

### Question 2.

Evaluate :

(i)  $0.0008 \times 26$

(ii)  $0.038 \times 95$

(iii)  $1.2 \times 2.4 \times 3.6$

(iv)  $0.9 \times 1.8 \times 0.27$

(v)  $1.5 \times 1.5 \times 1.5$

(vi)  $0.025 \times 0.025$

(vii)  $0.2 \times 0.002 \times 0.001$

**Solution:**

(i)  $0.0008 \times 26$

Since,  $8 \times 26 = 208$

$$0.0008 \times 26 = 0.0208$$

(ii)  $0.038 \times 95$

$$\begin{array}{r} 38 \\ \times 95 \\ \hline 190 \\ 342 \times \\ \hline 3610 \end{array}$$

Since,  $38 \times 95 = 3610$

$\therefore 0.038 \times 95 = 3.610 = 3.61$

(iii)  $1.2 \times 2.4 \times 3.6$

$$\begin{array}{r} 12 \\ \times 24 \\ \hline 48 \\ 24 \times \\ \hline 288 \\ \times 36 \\ \hline 1728 \\ 864 \times \\ \hline 10368 \end{array}$$

Since,  $12 \times 24 \times 36 = 10368$

$\therefore 1.2 \times 2.4 \times 3.6 = 10.368$

(iv)  $0.9 \times 1.8 \times 0.27$

$$\begin{array}{r} 9 \\ \times 18 \\ \hline 72 \\ 9 \times \\ \hline 162 \\ \times 27 \\ \hline 1134 \\ 324 \times \\ \hline 4374 \end{array}$$

Since,  $9 \times 18 \times 27 = 4374$

$\therefore 0.9 \times 1.8 \times 0.27 = 0.4374$

(v)  $1.5 \times 1.5 \times 1.5$

$$\begin{array}{r} 15 \\ \times 15 \\ \hline 75 \\ 15 \times \\ \hline 225 \\ \times 15 \\ \hline 1125 \\ 225 \times \\ \hline 3375 \end{array}$$

---

Since,  $15 \times 15 \times 15 = 3375$

$1.5 \times 1.5 \times 1.5 = 3.375$

(vi)  $0.025 \times 0.025$

Since,  $25 \times 25 = 625$

$\therefore 0.025 \times 0.025 = 0.000625$

(vii)  $0.2 \times 0.002 \times 0.001$

Since,  $2 \times 2 \times 1 = 4$

$\therefore 0.2 \times 0.002 \times 0.001 = 0.0000004$

### Question 3.

Multiply each of the following numbers by 10, 100 and 1000 :

(i) 3.9

(ii) 2.89

(in) 0.0829

(iv) 40.3

(v) 0.3725

**Solution:**

(i)  $3.9 \times 10 = 39$

$3.9 \times 100 = 390.0 = 390$

$3.9 \times 1000 = 3900.0 = 3900$

(ii)  $2.89 \times 10 = 28.9$

$2.89 \times 100 = 289$

$2.89 \times 1000 = 2890.00 = 2890$

(iii)  $0.0829 \times 10 = 0.829$

$0.0829 \times 100 = 8.29$

$0.0829 \times 1000 = 82.9$

(iv)  $40.3 \times 10 = 403$

$40.3 \times 100 = 4030$

$40.3 \times 1000 = 40300$

(v)  $0.3725 \times 10 = 3.725$

$0.3725 \times 100 = 37.25$

$0.3725 \times 1000 = 372.5$

### Question 4.

Evaluate :

(i)  $8.64 \div 8$

(ii)  $0.0072 \div 6$

(iii)  $20.64 \div 16$

(iv)  $1.602 \div 15$

(v)  $13.08 \div 4$

(vi)  $3.204 \div 9$

(vii)  $3.024 \div 12$

(viii)  $5.15 \div 5$

(ix)  $3 \div 5$

**Solution:**

$$(i) 8.64 \div 8 = \frac{8.64}{8} = 1.08$$

$$(ii) 0.0072 \div 6 = \frac{0.0072}{6} = 0.0012$$

$$(iii) \frac{20.64}{16} = 1.29$$

$$(iv) 1.602 \div 15 = \frac{1.602}{15} = \frac{1602}{1000 \times 15}$$

$$= \frac{106.8}{1000} = 0.1068$$

$$(v) \frac{13.08}{4} = 3.27$$

$$(vi) \frac{3.204}{9} = 0.356$$

$$(vii) 3.024 \div 12 = \frac{3.024}{12} = 0.252$$

$$(viii) \frac{5.15}{5} = 1.03$$

$$(ix) 3 \div 5 = \frac{3}{5} = 0.6$$

**Question 5.**

Divide each of the following numbers by 10, 100 and 1000 :

(i) 49.79

(ii) 0.923

(iii) 0.0704

**Solution:**

$$(i) \frac{49.79}{10} = 4.979$$

$$\frac{49.79}{100} = 0.4979$$

$$\frac{49.79}{1000} = 0.04979$$

$$(ii) \frac{0.923}{10} = 0.0923$$

$$\frac{0.923}{100} = 0.00923$$

$$\frac{0.923}{1000} = 0.000923$$

$$(iii) \frac{0.0704}{10} = 0.00704$$

$$\frac{0.0704}{100} = 0.000704$$

$$\frac{0.0704}{1000} = 0.0000704$$

**Myclass24**  
Your Class. Your Pace.

**Question 6.**

Evaluate :

(i)  $9.4 \div 0.47$

(ii)  $6.3 \div 0.09$

(iii)  $2.88 \div 1.2$

(iv)  $8.64 \div 1.6$

(v)  $37.188 \div 3.6$

(vi)  $16.5 \div 0.15$

(vii)  $3.2 \div 0.005$

(viii)  $3.24 \div 0.0016$

**Solution:**

$$(i) \frac{9.4}{0.47} = \frac{94 \times 100}{47 \times 10} = 2 \times 10 = 20$$

$$(ii) \frac{6.3}{0.09} = \frac{63 \times 100}{9 \times 10} = \frac{630}{9} = 70$$

$$(iii) \frac{2.88}{1.2} = \frac{288 \times 10}{12 \times 100} = \frac{288}{120} = 2.4$$

$$\text{or } \frac{2.88}{1.2} = \frac{28.8}{12} = 2.4$$

$$(iv) 8.64 \div 1.6 = \frac{8.64}{1.6} = \frac{8.64 \times 10}{1.6 \times 10}$$

$$= \frac{86.4}{16} = 5.4$$

$$(v) \frac{37.188}{3.6} = \frac{371.88}{36} = 10.33$$

$$\text{or } \frac{37.188}{3.6} = \frac{37188 \times 10}{36 \times 1000}$$

$$= \frac{371880}{36000} = \frac{2066}{200} = \frac{1033}{100}$$

$$= 10.33$$

$$(vi) \frac{16.5}{0.15} = \frac{165 \times 100}{15 \times 10} = \frac{16500}{150} = 110$$

$$\text{or } \frac{16.5}{0.15} = \frac{1650}{15} = 110$$

$$(vii) 3.2 \div 0.005 = \frac{3.2}{0.005} = \frac{3.2 \times 1000}{0.005 \times 1000}$$

$$= \frac{3200}{5} = 640$$

$$(viii) \frac{3.24}{0.0016} = \frac{324 \times 10000}{100 \times 16}$$

$$= \frac{3240000}{1600} = 2025$$

$$\text{or } \frac{3.24}{0.0016} = \frac{324 \times 10000}{00016 \times 100}$$

$$= \frac{32400}{16} = 2025$$

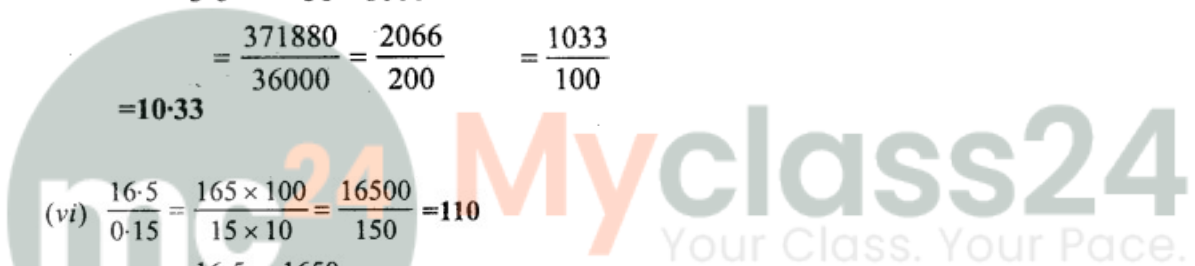
### Question 7.

Fill in the blanks with 10, 100, 1000, or 10000 etc.:

(i)  $7.85 \times \dots = 78.5$

(ii)  $0.442 \times \dots = 442$

(in)  $0.0924 \times \dots = 9.24$



- (iv)  $0.00187 \times \dots = 18.7$   
 (v)  $2.6 \times \dots = 2600$   
 (vi)  $0.08 \times \dots = 80$   
 (vii)  $96.7 \div \dots = 0.967$   
 (viii)  $5.2 \div \dots = 0.52$   
 (ix)  $33.15 \div \dots = 0.03315$   
 (x)  $0.7 \div \dots = 0.007$   
 (xi)  $0.00672 \times \dots = 67.2$

**Solution:**

- (i)  $7.85 \times 10 = 78.5$   
 (ii)  $0.442 \times 1000 = 442$   
 (iii)  $0.0924 \times 100 = 9.24$   
 (iv)  $0.00187 \times 10000 = 18.7$   
 (v)  $2.6 \times 1000 = 2600$   
 (vi)  $0.08 \times 1000 = 80$   
 (vii)  $96.7 \div 100 = 0.967$   
 (viii)  $5.2 \div 10 = 0.52$   
 (ix)  $33.15 \div 1000 = 0.03315$   
 (x)  $0.7 \div 100 = 0.007$   
 (xi)  $0.00672 \times 10000 = 67.2$



**Question 8.**

Evaluate :

- (i)  $9.32 - 28.54 \div 10$   
 (ii)  $0.234 \times 10 + 62.8$   
 (iii)  $3.06 \times 100 - 889.4 \div 100$   
 (iv)  $2.86 \times 7.5 + 45.4 \div 0.2$

(i)  $9.32 - 28.54 \div 10$   
 $= 9.32 - 2.854$

$$= 9.320 - 2.854 = 6.466$$

(ii)  $0.234 \times 10 + 62.8$  (Using BODMAS)

$$2.34 + 62.80 = 65.14$$

(iii)  $3.06 \times 100 - 889.4 + 100$

(Using BODMAS)

$$3.06 \times 100 - 8.894$$

$$306 - 8.894$$

$$306.000 - 8.894 = 297.106$$

(iv)  $2.86 \times 7.5 + 45.4 \div 0.2$

(Using BODMAS)

$$2.86 \times 7.5 + 45.4 \div 2$$

$$2.86 \times 7.5 + 227.00$$

$$\frac{286}{100} \times \frac{75}{10} + 227.00$$

$$\frac{286}{4} \times \frac{3}{10} + 227.00$$

$$\frac{143}{2} \times \frac{3}{10} + 227.00$$

$$\frac{429}{20} + 227.00$$

$$21.45 + 227.00 = 248.45$$

(v)  $97.82 \times 0.03 - 0.54 \div 0.3$

$$= 97.82 \times 0.03 - \frac{0.54}{0.3}$$

$$= 97.82 \times 0.03 - \frac{0.54 \times 10}{0.3 \times 10}$$

$$= 2.9346 - \frac{5.4}{3}$$

$$= 2.9346 - 1.8$$

$$= 2.9346 - 1.8000 = 1.1346$$

