

### EXERCISE 15(C)

**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

**Solution:**

(i) 5.6 and 8

The multiplication of 5.6 and 8 is as follows

$$5.6 \times 8 = 44.8$$

Hence,  $5.6 \times 8 = 44.8$

(ii) 38.46 and 9

The multiplication of 38.46 and 9 is as follows

$$38.46 \times 9 = 346.14$$

Hence,  $38.46 \times 9 = 346.14$

(iii) 0.943 and 62

The multiplication of 0.943 and 62 is as follows

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

We know that,

$$.943 \times 62 = 58.466$$

Hence  $0.943 \times 62 = 58.466$

(iv) 0.0453 and 35

The multiplication of 0.0453 and 35 is as follows

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

We know that,

$$453 \times 35 = 15855$$

$$\text{Hence } 0.0453 \times 35 = 1.5855$$

(v) 7.5 and 2.5

The multiplication of 7.5 and 2.5 is as follows

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

We know that,

$$75 \times 25 = 1875$$

$$\text{Hence } 7.5 \times 2.5 = 18.75$$

**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)  $1.5 \times 1.5 \times 1.5$

**Solution:**

(i)  $0.0008 \times 26$

Since,

$$8 \times 26 = 208$$

$$0.0008 \times 26 = 0.0208$$

$\therefore$  We get 0.0208 on multiplying  $0.0008 \times 26$

(ii)  $0.038 \times 95$

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

Since,

$$38 \times 95 = 3610$$

$$.038 \times 95 = 3.610$$

$$= 3.61$$

∴ We get 3.61 on multiplying  $0.038 \times 95$

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

$$12$$

$$24 \times$$

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$$48$$

$$24 \times$$

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$$288$$

$$36 \times$$

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$$1728$$

$$864 \times$$

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$$10368$$

Since,

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

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

∴ We get 10.368 on multiplying  $1.2 \times 2.4 \times 3.6$

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

$$9$$

$$18 \times$$

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$$72$$

$$9 \times$$

---


$$162$$

$$27 \times$$

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$$1134$$

$$324 \times$$

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$$4374$$

Since,

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

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

∴ We get 0.4374 on multiplying  $0.9 \times 1.8 \times 0.27$

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

$$15$$

$$15 \times$$

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$$75$$

$$15 \times$$

---


$$225$$

$$15 \times$$

---


$$1125$$

$$225 \times$$

---


$$3375$$

Since,

$$15 \times 15 \times 15 = 3375$$

$$1.5 \times 1.5 \times 1.5 = 3.375$$

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

(i) 3.9

(ii) 2.89

(iii) 0.0829

(iv) 40.3

(v) 0.3725

**Solution:**

(i) 3.9

$$3.9 \times 10 = 39$$

$$3.9 \times 100 = 390$$

$$3.9 \times 1000 = 3900$$

Hence, 39, 390 and 3900 are the required numbers

(ii) 2.89

$$2.89 \times 10 = 28.9$$

$$2.89 \times 100 = 289$$

$$2.89 \times 1000 = 2890.00$$

$$= 2890$$

Hence, 28.9, 289 and 2890 are the required numbers

(iii) 0.0829

$$0.0829 \times 10 = 0.829$$

$$0.0829 \times 100 = 8.29$$

$$0.0829 \times 1000 = 82.9$$

Hence, 0.829, 8.29 and 82.9 are the required numbers

(iv) 40.3

$$40.3 \times 10 = 403$$

$$40.3 \times 100 = 4030$$

$$40.3 \times 1000 = 40300$$

Hence, 403, 4030 and 40300 are the required numbers

(v) 0.3725

$$0.3725 \times 10 = 3.725$$

$$0.3725 \times 100 = 37.25$$

$$0.3725 \times 1000 = 372.5$$

#### 4. Evaluate:

(i)  $8.64 \div 8$

(ii)  $0.0072 \div 6$

(iii)  $20.64 \div 16$

(iv)  $1.602 \div 15$

(v)  $13.08 \div 4$

**Solution:**

(i)  $8.64 \div 8$

$$8.64 \div 8 = 8.64 / 8$$

We get

$$= 1.08$$

Therefore, the value of  $8.64 \div 8 = 1.08$

(ii)  $0.0072 \div 6$

$$0.0072 \div 6 = (0.0072) / 6$$

We get

$$= 0.0012$$

Therefore, the value of  $0.0072 \div 6 = 0.0012$

(iii)  $20.64 \div 16$

$$20.64 \div 16 = (20.64) / 16$$

We get

$$= 1.29$$

Therefore, the value of  $20.64 \div 16 = 1.29$

(iv)  $1.602 \div 15$

$$1.602 \div 15 = (1.602) / 15$$

We get

$$1602 / (1000 \times 15)$$

We get

$$= 106.8 / 1000$$

$$= 0.1068$$

Therefore, the value of  $1.602 \div 15 = 0.1068$

(v)  $13.08 \div 4$

$$13.08 \div 4 = 13.08 / 4$$

We get

$$= 3.27$$

Therefore, the value of  $13.08 \div 4 = 3.27$

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

(i) **49.79**

(ii) **0.923**

(iii) **0.0704**

**Solution:**

(i) 49.79

$$49.79 / 10 = 4.979$$

$$49.79 / 100 = 0.4979$$

$$49.79 / 1000 = 0.04979$$

Therefore, the required numbers are 4.979, 0.4979 and 0.04979

(ii) 0.923

$$0.923 / 10 = 0.0923$$

$$0.923 / 100 = 0.00923$$

$$0.923 / 1000 = 0.000923$$

Therefore, the required numbers are 0.0923, 0.00923 and 0.000923

(iii) 0.0704

$$0.0704 / 10 = 0.00704$$

$$0.0704 / 100 = 0.000704$$

$$0.0704 / 1000 = 0.0000704$$

Therefore, the required numbers are 0.00704, 0.000704 and 0.0000704

**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)  $37.188 \div 3.6$

**Solutions:**

(i)  $9.4 \div 0.47$

$$= 9.4 / 0.47$$

$$= (94 \times 100) / (47 \times 10)$$

On calculating further, we get

$$= 2 \times 10$$

$$= 20$$

Hence,  $9.4 \div 0.47 = 20$

(ii)  $6.3 \div 0.09$

$$= 6.3 / 0.09$$

$$= (63 \times 100) / (9 \times 10)$$

We get

$$= 6300 / 90$$

$$= 630 / 9$$

$$= 70$$

Hence,  $6.3 \div 0.09 = 70$

(iii)  $2.88 \div 1.2$

$$= 2.88 / 1.2$$

$$= (288 \times 10) / (12 \times 100)$$

We get,

$$= 2880 / 1200$$

$$= 288 / 120$$

$$= 2.4$$

Hence,  $2.88 \div 1.2 = 2.4$

(iv)  $8.64 \div 1.6$

$$= 8.64 / 1.6$$

$$= (8.64 \times 10) / (1.6 \times 10)$$

We get,

$$= 86.4 / 16$$

$$= 5.4$$

Hence,  $8.64 \div 1.6 = 5.4$

(v)  $37.188 \div 3.6$

$$= 37.188 / 3.6$$

$$= (37188 \times 10) / (36 \times 1000)$$

We get,

$$= 371880 / 36000$$

$$= 2066 / 200$$

$$= 1033 / 100$$

$$= 10.33$$

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

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

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

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

(iv)  $0.00187 \times \dots = 18.7$

(v)  $2.6 \times \dots = 2600$

**Solution:**

(i)  $7.85 \times \underline{10} = 78.5$

(ii)  $0.442 \times \underline{1000} = 442$

(iii)  $0.0924 \times \underline{100} = 9.24$

(iv)  $0.00187 \times \underline{10000} = 18.7$

(v)  $2.6 \times \underline{1000} = 2600$

**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)  $2.86 \times 7.5 + 45.4 \div 0.2$

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

**Solution:**

(i)  $9.32 - 28.54 \div 10$

$$= 9.32 - 2.854$$

So, we get

$$= 9.320 - 2.854$$

$$= 6.466$$

Therefore,  $9.32 - 28.54 \div 10 = 6.466$

(ii)  $0.234 \times 10 + 62.8$

Using BODMAS, we get

$$= 2.34 + 62.80$$

$$= 65.14$$

Therefore,  $0.234 \times 10 + 62.8 = 65.14$

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

Using BODMAS, we get

$$= 3.06 \times 100 - 8.894$$

$$= 306 - 8.894$$

$$= 306.000 - 8.894$$

$$= 297.106$$



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

Using BODMAS, we get

$$= 2.86 \times 7.5 + 45.4 \div 0.2$$

On further calculation, we get

$$= 2.86 \times 7.5 + 227.00$$

$$= (286 / 100) \times (75 / 10) + 227.00$$

$$= (286 / 4) \times (3 / 10) + 227.00$$

$$= (143 / 2) \times (3 / 10) + 227.00$$

We get,

$$= 429 / 20 + 227.00$$

$$= 21.45 + 227.00$$

$$= 248.45$$

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

$$= 97.82 \times 0.03 - 0.54 / 0.3$$

$$= 97.82 \times 0.03 - (0.54 \times 10) / (0.3 \times 10)$$

On further calculation, we get

$$= 2.9346 - 5.4 / 3$$

$$= 2.9346 - 1.8$$

$$= 2.9346 - 1.8000$$

We get,

$$= 1.1346$$