

EXERCISE 3.2

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1. Find the product:

(i) 4.74×10

(ii) 0.45×10

(iii) 0.0215×10

(iv) 0.0054×10

Solution:

(i) Given 4.74×10

Here we have to do normal multiplication with shifting the decimal point by one place to the right

Therefore $4.74 \times 10 = 47.4$

(ii) Given 0.45×10

Here we have to do normal multiplication with shifting the decimal point by one place to the right

Therefore $0.45 \times 10 = 4.5$

(iii) Given 0.0215×10

Here we have to do normal multiplication with shifting the decimal point by one place to the right

Therefore $0.0215 \times 10 = 0.215$

(iv) Given 0.0054×10

Here we have to do normal multiplication with shifting the decimal point by one place to the right

Therefore $0.0054 \times 10 = 0.054$

2. Find the product:

(i) 35.853×100

(ii) 42.5×100

(iii) 12.075×100

(iv) 100×0.005

Solution:

(i) Given 35.853×100

Here we have to do normal multiplication with shifting the decimal point by two places to the right

$$\text{Therefore } 35.853 \times 100 = 3585.3$$

(ii) Given 42.5×100

Here we have to do normal multiplication with shifting the decimal point by two places to the right

$$\text{Therefore } 42.5 \times 100 = 4250$$

(iii) Given 12.075×100

Here we have to do normal multiplication with shifting the decimal point by two places to the right

$$\text{Therefore } 12.075 \times 100 = 1207.50$$

(iv) Given 100×0.005

Here we have to do normal multiplication with shifting the decimal point by two places to the right

$$\text{Therefore } 100 \times 0.005 = 0.5$$

3. Find the product:

(i) 2.506×1000

(ii) 20.708×1000

(iii) 0.0529×1000

(iv) 1000×0.1

Solution:

(i) Given 2.506×1000

Here we have to do normal multiplication with shifting the decimal point by three places to the right

$$\text{Therefore } 2.506 \times 1000 = 2506$$

(ii) Given 20.708×1000

Here we have to do normal multiplication with shifting the decimal point by three places to the right

$$\text{Therefore } 20.708 \times 1000 = 20708$$

(iii) Given 0.0529×1000

Here we have to do normal multiplication with shifting the decimal point by three places to the right

Therefore $0.0529 \times 1000 = 52.9$

(iv) Given 1000×0.1

Here we have to do normal multiplication with shifting the decimal point by three places to the right

Therefore $1000 \times 0.1 = 100$

4. Find the product:

(i) 3.14×17

(ii) 0.745×12

(iii) 28.73×47

(iv) 0.0415×59

Solution:

(i) Given 3.14×17

First multiply as usual without looking at the decimal point

$$3.14 \times 17 = 578$$

Now mark the decimal point in the product to have one place of decimal as there in the given decimal

$$3.14 \times 17 = 57.8$$

(ii) Given 0.745×12

First multiply as usual without looking at the decimal point

$$0.745 \times 12 = 894$$

Now mark the decimal point in the product to have three places of decimal as there in the given decimal

$$0.745 \times 12 = 8.94$$

(iii) Given 28.73×47

First multiply as usual without looking at the decimal point

$$28.73 \times 47 = 135031$$

Now mark the decimal point in the product to have two places of decimal as there in the given decimal

$$28.73 \times 47 = 1350.31$$

(iv) Given 0.0415×59

First multiply as usual without looking at the decimal point

$$0.0415 \times 59 = 24485$$

Now mark the decimal point in the product to have four places of decimal as there in the given decimal

$$0.0415 \times 59 = 2.4485$$

5. Find:

(i) 1.07×0.02

(ii) 211.9×1.13

(iii) 10.05×1.05

(iv) 13.01×5.01

Solution:

(i) Given 1.07×0.02

First multiply as usual without looking at the decimal point

$$1.07 \times 0.02 = 00214$$

Sum of the decimals is 4

Now mark the decimal point in the product to have four places of decimal as there in the given decimal

$$1.07 \times 0.02 = 0.0214$$

(ii) Given 211.9×1.13

First multiply as usual without looking at the decimal point

$$211.9 \times 1.13 = 239447$$

Sum of the decimals is 3

Now mark the decimal point in the product to have three places of decimal as there in the given decimal

$$211.9 \times 1.13 = 239.447$$

(iii) Given 10.05×1.05

First multiply as usual without looking at the decimal point

$$10.05 \times 1.05 = 105525$$

Sum of the decimals is 4

Now mark the decimal point in the product to have four places of decimal as there in the given decimal

$$10.05 \times 1.05 = 10.5525$$

(iv) Given 13.01×5.01

First multiply as usual without looking at the decimal point

$$13.01 \times 5.01 = 651801$$

Sum of the decimals is 4

Now mark the decimal point in the product to have four places of decimal as there in the given decimal

$$13.01 \times 5.01 = 65.1801$$

6. Find the area of a rectangle whose length is 5.5m and breadth is 3.4m.

Solution:

Given length of rectangle = 5.5m

Breadth of rectangle = 3.4 m

Area of rectangle = length \times breadth

$$= 5.5 \times 3.4$$

$$= 18.7 \text{ m}^2$$

7. If the cost of a book is Rs 25.57, find the cost of 24 such books.

Solution:

Given cost of a book is Rs 25.57

Cost of 24 books = 25.57×24

$$= \text{Rs } 618.00$$

8. A car covers a distance of 14.75km in one liter of petrol. How much distance it will cover in 15.5 liters of petrol?

Solution:

Given that distance covered by car in 1 liter of petrol = 14.75 km

Distance covered by car in 15.5 liters of petrol = 14.75×15.5

$$= 228.625 \text{ km}$$

9. One kg of rice costs Rs 42.65. What will be the cost of 18.25 kg of rice?

Solution:

Given cost of 1kg of rice = 42.65

Cost of 18.25kg of rice = 42.65×18.25

= Rs 778.3625

10. One meter of cloth costs Rs 152.50. What is the cost of 10.75 meters of cloth?

Solution:

Given that cost of 1m cloth = Rs 152.50

Cost of 10.75 m of cloth = 152.50×10.75

= Rs 1639.375



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