

EXERCISE 3.2

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1. Find the product: (i) 4.74 × 10 (ii) 0.45 × 10 (iii) 0.0215 × 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 Therefore 35.853 × 100 = 3585.3

(ii) Given 42.5 \times 100 Here we have to do normal multiplication with shifting the decimal point by two places to the right 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
Therefore 12.075 × 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 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
 Therefore 2.506 × 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 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 × 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 = 5.5mBreadth of rectangle = 3.4 mArea of rectangle = length × breadth = 5.5×3.4 = $18.7 m^2$

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 = 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 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

