

RD SHARMA

Solutions

Class 7 Maths

Chapter 3

Ex 3.2

Q1. Find the product:

(i) 4.74×10

Shifting the decimal point by one place to the right

$$4.74 \times 10 = 47.4$$

(ii) 0.45×10

Shifting the decimal point by one place to the right

$$0.45 \times 10 = 4.5$$

(iii) 0.0215×10

Shifting the decimal point by one place to the right

$$0.0215 \times 10 = 0.215$$

(iv) 0.0054×100

Shifting the decimal point by two places to the right

$$0.0054 \times 100 = 0.54$$

Q2. Find the product:

(i) 35.853×100

Shifting the decimal point by two places to the right

$$35.853 \times 100 = 3585.3$$

(ii) 42.5×100

Shifting the decimal point by two places to the right

$$42.5 \times 100 = 4250$$

(iii) 12.075×100

Shifting the decimal point by two places to the right

$$12.075 \times 100 = 1207.5$$

(iv) 100×0.005

Shifting the decimal point by two places to the right

$$0.005 \times 100 = 0.5$$

Q3. Find the product:

(i) 2.506×1000

Shifting the decimal point by three places to the right

$$2.506 \times 1000 = 2506$$

(ii) 20.708×1000

Shifting the decimal point by three places to the right

$$20.708 \times 1000 = 20708$$

(iii) 0.0529×1000

Shifting the decimal point by three places to the right

$$0.0529 \times 1000 = 52.9$$

(iv) 1000×0.1

Shifting the decimal point by three places to the right

$$0.1 \times 1000 = 100$$

Q4. Find the product:

(i) 3.4×17

Multiply the number without looking into the decimal points

$$3.4 \times 17 = 57.8$$

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

=57.8

(ii) 0.745×12

Multiply the number without looking into the decimal points

$$745 \times 12 = 8940$$

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

$$0.745 \times 12 = 8.940$$

(iii) 28.73×47

Multiply the number without looking into the decimal points

$$2873 \times 47 = 135031$$

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) 0.0415×59

Multiply the number without looking into the decimal points

$$415 \times 59 = 24485$$

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

$$0.0415 \times 59 = 2.4485$$

Q5. Find:

(i) 1.07×0.02

Multiply the number without looking into the decimal points

$$107 \times 2 = 214$$

Sum of the decimal places in the given decimals is $2+2=4$

Mark the decimal point in the product to have four places of decimals

$$1.07 \times 0.02 = 0.0214$$

(ii) 211.9×1.13

Multiply the number without looking into the decimal points

$$2119 \times 113 = 239447$$

Sum of the decimal places in the given decimals is $1+2=3$

Mark the decimal point in the product to have three places of decimals

$$211.9 \times 1.13 = 239.447$$

(iii) 10.05×1.05

Multiply the number without looking into the decimal points

$$1005 \times 105 = 105525$$

Sum of the decimal places in the given decimals is $2+2=4$

Mark the decimal point in the product to have four places of decimals

$$10.05 \times 1.05 = 10.5525$$

(iv) 13.01×5.01

Multiply the number without looking into the decimal points

$$1301 \times 501 = 651801$$

Sum of the decimal places in the given decimals is $2+2=4$

Mark the decimal point in the product to have four places of decimals

$$13.01 \times 5.01 = 65.1801$$

Q6. Find the area of a rectangle whose length is 5.5 m and breadth is 3.4 m.

We have

Length of rectangle=5.5m

Breadth of rectangle=3.4m

Area of rectangle=length X Breadth

= 5.5 x 3.4

=18.7m²

Q7. If the cost of a book is Rs 25.75, find the cost of 24 such books.

Cost of one book=Rs.25.75

Therefore cost of 24 books=25.75x 24

=Rs.618.00

Q8. A car covers a distance of 14.75 km in one litre of petrol. How much distance will it cover in 15.5 litres of petrol?

We have,

Distance covered in one litre of petrol=14.75km

Distance covered in 15.5 litres of petrol=14.75 x 15.5

=228.625km

Q9. One kg of rice costs Rs 42.65. What will be the cost of 18.25 kg of rice?

Cost of one kg rice= 42.65

Cost of 18.25kg= 42.65 x 18.25

=Rs.778.3625

Q10. One metre of cloth costs Rs 152.50. What is the cost of 10.75 metres of cloth?

We have,

One metre of cloth cost= Rs.152.50

Cost of 10.75 metres=10.75 x 152.50

=Rs.1639.375