

Exercise 3C

(xii) First, we will multiply 1245 by 64.

: 1245 × 64 = 79680

Sum of decimal places in the given numbers = (3 + 1) = 4

$$\therefore$$
 1.245 × 6.4 = 7.9680 [4 places of decimal]
= 7.968

Q6

Answer:

(i) First, we will find the product $13 \times 1.3 \times 0.13$.

Now,
$$13 \times 13 \times 13 = 169 \times 13$$

= 2197

Sum of decimal places in the given numbers = (1 + 2) = 3So, the product must have three decimal places.

$$\therefore 13 \times 1.3 \times 0.13 = 2.197$$

(ii) First, we will find the product $2.4 \times 1.5 \times 2.5$.

Now,
$$24 \times 15 \times 25 = 360 \times 25$$

= 9000

| 360 ×25 |
|------------|
| 1800 |
| 720× |
| 9000 |

Sum of decimal places in the given numbers = (1 + 1 + 1) = 3So, the product must have three decimal places.

$$\therefore 2.4 \times 1.5 \times 2.5 = 9.000$$

= 9

(iii) First, we will find the product $0.8 \times 3.5 \times 0.05$.

Now,
$$8 \times 35 \times 5 = 280 \times 5$$

= 1400

Sum of decimal places in the given numbers = (1 + 1 + 2) = 4So, the product must have four decimal places.

$$\therefore 0.8 \times 3.5 \times 0.05 = 0.1400$$

= 0.14

(iv) First, we will find the product $0.2 \times 0.02 \times 0.002$.

Now,
$$2 \times 2 \times 2 = 4 \times 2$$

Sum of decimal places in the given numbers = (1 + 2 + 3) = 6So, the product must have six decimal places.

$$0.2 \times 0.02 \times 0.002 = 0.000008$$

(v) First, we will find the product $11.1 \times 1.1 \times 0.11$.

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