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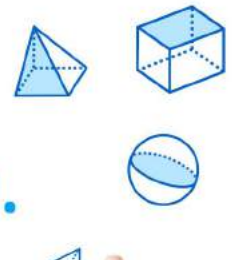

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# NCERT Solutions Class 7 Maths Chapter 2 Exercise 2.6

**Q1**. Find

i) 0.2 × 6 ii) 8 × 4.6 iii) 2.71 × 5 iv) 20.1 × 4

v) 0.05×7 vi) 211.02 × 4 vii) 2 ×0.86

**Difficulty Level: Easy**

**What is known:**

One decimal number and one whole number.

**What is unknown:**

Product of these two numbers.

**Reasoning:**

Covert decimal number into fraction and then find the product.

**Solution:**

(i)

$$0.2\times 6=\frac{2}{10}\times 6$$

$$0.2\times 6=\frac{2\times 6}{10}$$

$$0.2\times 6=\frac{12}{10}$$

$$0.2\times 6=1.2$$

(ii)

$$8\times 4.6=8\times\frac{46}{10}$$

$$8\times 4.6=\frac{8\times 46}{10}$$

$$8\times 4.6=\frac{368}{10}$$

$$8\times 4.6=3.68$$

(iii)

$$2.71\times 5=\frac{271}{100}\times 5$$
$$2.71\times 5=\frac{271\times 5}{100}$$
$$2.71\times 5=\frac{1355}{100}$$
$$2.71\times 5=13.55$$

(iv)

$$20.1\times 4=\frac{201}{10}\times 4$$
$$20.1\times 4=\frac{201\times 4}{10}$$
$$20.1\times 4=\frac{804}{10}$$
$$20.1\times 4=80.4$$

(v)

$$0.05\times 7=\frac{5}{100}\times\frac{7}{1}$$
$$0.05\times 7=\frac{5\times 7}{100}$$
$$0.05\times 7=\frac{35}{100}$$
$$0.05\times 7=0.35$$

(vi)

$$211.02\times 4=\frac{21102}{100}\times\frac{4}{1}$$
$$211.02\times 4=\frac{21102\times 4}{100}$$
$$211.02\times 4=\frac{84408}{100}$$
$$211.02\times 4=844.08$$

(vii)

$$2\times 0.86=\frac{2}{1}\times\frac{86}{100}$$
$$2\times 0.86=\frac{2\times 86}{100}$$
$$2\times 0.86=\frac{172}{100}$$
$$2\times 0.86=1.72$$

Q2. Find the area of rectangle whose length is 5.7 cm and breadth is 3 cm.

**Difficulty Level: Easy**

**What is known:**
Dimensions of rectangle.

**What is unknown:**
Area of rectangle.

**Reasoning:**
Area of rectangle = Length × Breadth

**Solution:**
**Given:**
Length of rectangle = 5.7 cm
Breadth of rectangle = 3 cm
∴ Area of rectangle = Length × Breadth
= 5.7 × 3
= 17.1
Thus, the area of rectangle is 17.1 cm

**Q3**. Find:

| | | | |
|---|---|---|---|
| i) 1.3 × 10 | ii) 36.8 × 10 | iii) 153.7× 10 | iv) 168.07 × 10 |
| v) 31.1×100 | vi) 156.1 × 100 | vii) 3.62 × 100 | viii) 43.07 × 100 |
| ix) 0.5 × 10 | x) 0.08 × 10 | xi) 0.9 ×100 | xii) 0.03 × 1000 |

**Difficulty Level: Easy**

**What is known:**
One decimal number and one whole number.

**What is unknown:**
Product of these numbers.

**Reasoning:**
We know that when a number is multiplied by 10, 100 or 1000 the digits in the products are same as in the decimal number but, the decimal point in the product is shifted to the right by as many places as there are zeros.

**Solution:**

i) $1.3 \times 10 = 13.0$

ii) $36.8 \times 10 = 368.0$

iii) $153.7 \times 10 = 1537.0$

iv) $168.07 \times 10 = 1680.7$

v) $31.1 \times 100 = 3110.0$

vi) $156.1 \times 100 = 15610.0$

vii) $3.62 \times 100 = 362.0$

viii) $43.07 \times 100 = 4307.0$

ix) $0.5 \times 10 = 5.0$

x) $0.08 \times 10 = 0.8$

xi) $0.9 \times 100 = 90.0$

xii) $0.03 \times 1000 = 30.0$

**Q4.** A two-wheeler covers a distance of 55.3 km in 1 liter of petrol. How much it will cover in 10 liters of petrol?

**Difficulty Level: Easy**

**What is known:**
A two-wheeler covers a distance of 55.3 km in 1 liter of petrol.

**What is unknown:**
How much it will cover in 10 liters of petrol.

**Reasoning:**
By using Unitary Method, we can simply multiply 55.3 by 10 to get answer.

**Solution:**
Distance covered by two-wheeler in 1 liter of petrol =55.3 km
Distance covered by 10 liters of petrol = $55.3 \times 10 = 553.0$ km
Therefore, it will cover a distance of 553 km in 10 liter of petrol.

**Q5.** Find:

i) $2.5 \times 0.3$ ii) $0.1 \times 51.7$ iii) $0.2 \times 316.8$ iv) $1.3 \times 3.1$
v) $0.5 \times 0.05$ vi) $11.2 \times 0.15$ vii) $1.07 \times 0.02$ viii) $10.05 \times 1.05$
ix) $101.01 \times 0.01$ x) $100.01 \times 1.1$

**Difficulty Level: Moderate**

**What is known:**
Decimal numbers.

**What is unknown:**
Product of these two numbers.

**Reasoning:**
Covert decimal number into fraction and then find the product.

**Solution:**
(i)

$$\begin{aligned} 2.5 \times 0.3 &= \frac{25}{10} \times \frac{3}{10} \\ &= \frac{25 \times 3}{100} \\ &= \frac{75}{100} \\ &= 0.75 \end{aligned}$$

(ii)

$$\begin{aligned} 0.1 \times 51.7 &= \frac{1}{10} \times \frac{517}{10} \\ &= \frac{1 \times 517}{100} \\ &= \frac{517}{100} \\ &= 5.17 \end{aligned}$$

(iii)

$$\begin{aligned} 0.2 \times 316.8 &= \frac{2}{10} \times \frac{3168}{10} \\ &= \frac{2 \times 3168}{100} \\ &= \frac{6336}{100} \\ &= 63.36 \end{aligned}$$

(iv)

$$1.3 \times 3.1 = \frac{13}{10} \times \frac{31}{10}$$
$$= \frac{13 \times 31}{100}$$
$$= \frac{403}{100}$$
$$= 4.03$$

(v)

$$0.5 \times 0.05 = \frac{5}{10} \times \frac{5}{100}$$
$$= \frac{5 \times 5}{1000}$$
$$= \frac{25}{1000}$$
$$= 0.025$$

(vi)

$$11.2 \times 0.15 = \frac{112}{10} \times \frac{15}{100}$$
$$= \frac{112 \times 15}{1000}$$
$$= \frac{1680}{1000}$$
$$= 1.68$$

(vii)

$$1.07 \times 0.02 = \frac{107}{100} \times \frac{2}{100}$$
$$= \frac{107 \times 2}{10000}$$
$$= \frac{214}{10000}$$
$$= 0.0214$$

(viii)

$$10.05 \times 1.05 = \frac{1005}{100} \times \frac{105}{100}$$
$$= \frac{1005 \times 105}{10000}$$
$$= \frac{105525}{10000}$$
$$= 10.5525$$

(ix)

$$101.01 \times 0.01 = \frac{10101}{100} \times \frac{1}{100}$$
$$= \frac{10101 \times 1}{10000}$$
$$= \frac{10101}{10000}$$
$$= 1.0101$$

(x)

$$100.01 \times 1.1 = \frac{10001}{100} \times \frac{11}{10}$$
$$= \frac{10001 \times 11}{1000}$$
$$= \frac{110011}{1000}$$
$$= 110.011$$

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