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DPM CLASSES

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

BASIC NOTES (CBSE/NCERT)

DECIMALS

PART -1 OUT OF 1

6th, 7th & 8th

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∴ Decimals :-

②. Decimals : Decimal is a point representation between whole part and partial part.

Ex - 0.5, 2.6, 2.8 etc.

③. from fraction number to decimal number conversion:-

$$\frac{2}{7} = 0.28$$

$$\frac{4}{100} = 0.04$$



$$\begin{array}{r} 7 \overline{) 20} 0.28 \\ \underline{14} \\ 60 \\ \underline{56} \\ 4 \end{array}$$

④. Decimal number to fractional number conversion:-

$$2.5 = \frac{255}{100} = \frac{5}{2}$$

Decimal convert into 1 and counted digit are equal to zero after point

⑤. Tens, ones, Tenths, Hundredths :-

$$2 \times 10 = 20 \text{ (Tens)}$$

$$2 \times 1 = 2 \text{ (ones)}$$

$$2 \times \frac{1}{10} = \frac{2}{10} = 0.2 \text{ (Tenths)}$$

$$2 \times \frac{1}{100} = \frac{2}{100} = 0.02 \text{ (Hundredths)}$$



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-∴ Decimals :-

Q. Decimals in words :-

Q. 108.56

Sol. One hundred eight point five six

Q. Write in decimals from expanded form :-

Q. $137 + \frac{5}{100} + \frac{2}{1000} + \frac{3}{10000}$

Sol. $= 137 + 0.05 + 0.002 + 0.0003$
 $= 137.0523$

$$\begin{array}{r}
 000.0003 \\
 + 000.0020 \\
 + 000.0500 \\
 + 137.0000 \\
 \hline
 137.0523
 \end{array}$$

Q. Comparing Decimals :-

Q. Compare the following -

1.23 and 1.2

Sol. $1.23 > 1.20$ 

always same digit show
after decimal point then
compare digit by digit

Q. Using decimals - money, length, weight etc.

Q. Convert 65 paise into rupees.

Sol. $100 \text{ p} = ₹ 1$

$1 \text{ p} = ₹ \frac{1}{100}$

$65 \text{ p} = \frac{1}{100} \times 65$

$= \frac{65}{100}$

$= ₹ 0.65$



[more to 1 - Divide]
[1 to more - multiply]

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-: Decimals :-

Q. Convert 419 cm into m.

Sol.

$$100 \text{ cm} = 1 \text{ m}$$

$$1 \text{ cm} = \frac{1}{100} \text{ m}$$

$$419 \text{ cm} = \frac{1}{100} \times 419$$

$$= \frac{419}{100}$$

$$= 4.19 \text{ m}$$

[more to 1 - divide
1 to more - multiply]

Q. Convert 2350 g into kg.

Sol.

$$1000 \text{ g} = 1 \text{ kg}$$

$$1 \text{ g} = \frac{1}{1000} \text{ kg}$$

$$2350 \text{ g} = \frac{1}{1000} \times 2350$$

$$= \frac{2350}{1000}$$

$$= 2.350 \text{ kg}$$

[more to 1 - divide
1 to more - multiply]

Notes :- If no. (200 m²) convert into km then power 2 means double, if power 3 then means triple.

Q. Convert ~~into km~~ 20 m² and 30 m³ into km².

Sol.

$$1000 \text{ m}^2 = 1 \text{ km}^2 \times 1 \text{ km}$$

$$1 \text{ m}^2 = \frac{1}{1000} \times \frac{1}{1000}$$

$$1 \text{ m}^2 = \frac{1}{1000000}$$

$$20 \text{ m}^2 = \frac{1}{1000000} \times 20$$

$$= \frac{20}{1000000}$$

$$= 0.000020 \text{ km}^2$$

3.

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-; Decimals :-

①. Add decimals :-

EX- $15 + 0.632 + 13.8$

Sol. 29.432

(Note: proper solution)

$$= 15.000 + 00.632 + 13.800$$

$$= 29.432$$

$$\begin{array}{r}
 15.000 \\
 + 00.632 \\
 + 13.800 \\
 \hline
 29.432
 \end{array}$$

Always show equal digit before and after decimal point.



②. Subtract decimals :-

EX- $202.54 \text{ m from } 250 \text{ m}$

Sol. $= 250 - 202.50$

$$= 250.00 - 202.50$$

$$= 47.50$$

$$\begin{array}{r}
 250.00 \\
 - 202.50 \\
 \hline
 47.50
 \end{array}$$



③. multiplication decimals :-

EX- 0.2×6

Sol. $= 0.2 \times 6$

$$= 1.2$$

EX- 2.5×0.3

Sol. $= 2.5 \times 0.3$

$$= 0.75$$

Solve as a whole no

$$2 \times 6 = 12$$

then count digit after the decimal and point set Right to left same digit counted.

$$25 \times 3 = 75$$

Point place after two digit

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-; Decimals: -

② Multiplication decimals by 10, 100, 1000 etc. then decimal point forward to right according to number of zeroes.

Ex - 31.1×100

Sol. = 31.1×100

= 3110

Ex - 43.07×1000

Sol. = 43.07×1000

= 43070

$31.10^2 \times 100$

3110

(move) Point forward two digit-right if less digit available then add 0 according to requirement.

③ Division by 10, 100, 1000 etc then decimal point forward to left according to number of zeroes.

Ex - $31.5 \div 10$

= $31.5 \times \frac{1}{10}$

= $\frac{315}{10}$

= 3.15

31.5

10

3.15

Point move left one digit because 10 is divided to 31.5

$[1 \div 10 = \frac{1}{10}]$

④ Division of decimal number by a whole number:

Ex - $6.4 \div 2$

Sol. = $6.4 \times \frac{1}{2}$

= 3.2

$2 \overline{) 6.4} \begin{matrix} 3.2 \\ -6 \\ \hline 0.4 \\ -4 \\ \hline 0 \end{matrix}$

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∴ Decimals :-

Q. Division of a decimal number by another decimal no :-

Ex - $25.5 \div 0.5$

Sol. $= 25.5 \div 0.5$

$$= \frac{255}{10} \div \frac{5}{10}$$

$$= \frac{255}{10} \times \frac{10}{5}$$

$$= 51$$

Point is convert into 1
no. of digit after point
are 0 (zeroes) then
(÷) Convert into (x) by
Reciprocal of number.



Examples :-

Q. Write the following decimals in the place value table

(a) 19.4 (b) 10.6 (c) 205.9

Sol.

Number	Hundreds 100	Tens 10	Ones 1	Tenth $\frac{1}{10}$	Hundredth $\frac{1}{100}$
205.9	2	0	5	9	

$$205.9 = 2 \times 100 + 0 \times 10 + 5 \times 1 + \frac{9}{10}$$

$$= 200 + 0 + 5 + \frac{9}{10}$$

$$= 200 + 5 + \frac{9}{10}$$



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∴ Decimals :-

Q. Write each of the following as decimals :-

(a) Two tens and nine tenth $= 2 \times 10 + 9 \times \frac{1}{10}$
 $20 + .9$
 20.9

Q. Write the following decimals as fractions. Reduce the fractions to lowest form.

(a) $13.7 = \frac{137}{10}$

(b) $21.2 = \frac{212}{10} = \frac{106}{5}$



$$\frac{1}{10} = 0.1$$

$$\frac{1}{100} = 0.01$$

$$\frac{1}{1000} = 0.001$$

Q. Express the following as cm using decimals.

(a) 83 mm

$$[10 \text{ mm} = 1 \text{ cm}]$$

$$\frac{83}{10} \text{ cm} = 8.3 \text{ cm}$$

(b) 4 cm 2 mm
 $= 4 \text{ cm} + \frac{2}{10} \text{ cm}$
 $= 4 \text{ cm} + 0.2 \text{ cm}$
 $= 4.2 \text{ cm}$



$$\begin{array}{r} 4.00 \\ + 0.20 \\ \hline 4.20 \end{array}$$

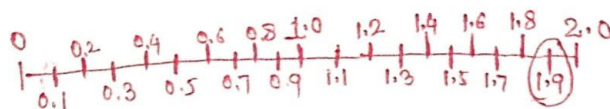
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-: Decimals :-

Q. Show the following numbers on the number line.

(a) 1.9



Q. The length of Ramesh's notebook is 9 cm 5 mm. What will be its length in cm?

$$= 9 \text{ cm } 5 \text{ mm}$$

$$= 9 \text{ cm} + \frac{5}{10} \text{ cm}$$

$$= 9 \text{ cm} + 0.5 \text{ cm}$$

$$= 9.5 \text{ cm}$$

$$[10 \text{ mm} = 1 \text{ cm}]$$

$$\begin{array}{r} 9.00 \\ + 0.50 \\ \hline 9.50 \end{array}$$



Q. Write the following decimals in words.

(a) 108.56

one hundred eight point five six

(b) 5.008

Five point zero zero eight



Q. Between which two numbers in tenth place on the number line does each of the given no. lie.

(a) 0.06 0 and 0.1

(b) 0.66 0.6 and 0.7

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∴ Fraction :-

Q. Write fractions in lowest form :-

$$(a) \quad 0.066 = \frac{0.066}{1000} = \frac{66}{1000} = \frac{33}{500}$$

$$(b) \quad 0.18 = \frac{0.18}{100} = \frac{18}{100} = \frac{9}{50}$$



Q. Which is greater ?

$$(a) \quad 1.23 \text{ or } 1.2$$

$$1.23 > 1.20$$

(before comparison same
digit after point)
then check digit by digit
comparison

$$(b) \quad 0.5 \text{ or } 0.05$$

$$0.50 > 0.05$$



Q. Find sum of the following :-

$$(a) \quad 0.007 + 8.5 + 30.08$$

(Convert into like decimals)

$$= 0.007 + 8.500 + 30.080$$

$$= 38.587$$

$$\begin{array}{r} 0.007 \\ + 8.500 \\ + 30.080 \\ \hline 38.587 \end{array}$$

$$(b) \quad 280.69 + 25.2 + 38$$

$$= 280.69 + 25.20 + 38.00$$

$$= 343.89$$

$$\begin{array}{r} 280.69 \\ + 25.20 \\ + 38.00 \\ \hline 343.89 \end{array}$$

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-! Decimals :-

- Q. Rashid spent ₹ 35.75 for maths book and ₹ 32.60 for science book. Find the total amount spent by Rashid.

Sol. Price of maths book = ₹ 35.75
$$\begin{array}{r} 35.75 \\ + 32.60 \\ \hline 68.35 \end{array}$$

Price of science book = ₹ 32.60



Total Amount Spent By Rashid = $35.75 + 32.60$
= ₹ 68.35

- Q. Radhika's mother gave her ₹ 10.50 and her father gave her ₹ 15.80. Find the total amount given by Radhika's parents.

Sol. do itself as above



- Q. Nasreen bought 3m 20cm cloth for her shirt and 2m 5cm for her trousers. Find the total length of cloth bought by her.

Sol. cloth for shirt = 3m 20cm = $3m + \frac{20}{100}m$
= $3m + 0.20m$
= 3.20m



cloth for trousers = 2m 5cm = $2m + \frac{5}{100}m$
= $2m + 0.05m$
= 2.05m

Total length of cloth bought by her = $3.20m + 2.05m$
= 5.25m

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-: Dedimahi :-

Q. Naresh walked 2 km 35 m in the morning and 1 km 7 m in the evening. How much distance did he walk in all?

Sol. do itself

Q. Sunita travelled 15 km 268 m by bus, 7 km 7 m by car and 500 m on foot in order to reach her school. How far is her school from her residence?

Sol. distance travelled by bus = 15 km 268 m
 $= 15 \text{ km} + \frac{268}{1000} \text{ km}$



$$= 15 \text{ km} + 0.268 \text{ km}$$

$$= 15.268 \text{ km}$$

Distance travelled by car = 7 km 7 m

$$\begin{array}{r} 15.268 \\ + 07.007 \\ \hline 22.275 \end{array}$$

$$= 7 \text{ km} + \frac{7}{1000} \text{ km}$$

$$= 7 \text{ km} + 0.007 \text{ km}$$

$$= 7.007 \text{ km}$$

1000 m = 1 km

Distance travelled by foot = 500 m



$$= \frac{500}{1000} \text{ km}$$

$$= 0.500 \text{ km}$$

Total distance of school from her residence is

$$= (15.268 + 7.007 + 0.500) \text{ km}$$

$$= 22.775 \text{ km}$$

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∴ Decimals :-

Q. Ravi purchased 5 kg 400g rice, 2 kg 20g Sugar and 10 kg 850g flour. Find the total weight of his purchases.

Sol. do it self

Q. Subtraction :-



Q. Subtract : ₹ 18.25 from ₹ 20.75 (I-II)

$$\text{Sol.} = 20.75 - 18.25 \\ = ₹ 2.50$$

$$\begin{array}{r} 20.75 \\ - 18.25 \\ \hline 02.50 \end{array}$$

Q. Subtract : 0.314 kg from 2.107 kg

$$\text{Sol.} \begin{array}{r} 2.107 \\ - 0.314 \\ \hline 1.793 \end{array}$$



Q. Subtract : 202.54 from 250 m

$$\text{Sol.} = 250.00 - 202.54 \quad (\text{Digit always same after point}) \\ = 47.46$$

$$\begin{array}{r} 250.00 \\ - 202.54 \\ \hline 47.46 \end{array}$$

Q. Find the value : $11.6 - 9.847$

$$\text{Sol.} = 11.600 - 9.847 \\ = 1.753$$

$$\begin{array}{r} 11.600 \\ - 9.847 \\ \hline 1.753 \end{array}$$

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∴ Decimals :-

Q. Raju bought a book for ₹ 35.65. He gave ₹ 50 to the shopkeeper. How much money did he get back from the shopkeeper?

Sol. money given to shopkeeper = ₹ 50.00

Cost of book = ₹ 35.65



He get back from the shopkeeper = $50.00 - 35.65$
= ₹ 14.35

Q. Rani had ₹ 18.50. She bought one ice-cream for ₹ 11.75. How much money does she have now?

Sol. do it self (difference)

Q. Tina had 20 m 5 cm long cloth. She cut 4 m 50 cm length of cloth from this for making a curtain. How much cloth is left with her?

Sol. length of cloth = 20 m 5 cm

= $20\text{ m} + \frac{5}{100}\text{ m}$

= $20\text{ m} + 0.05\text{ m}$

= 20.05 m

$$\begin{array}{r} 20.05 \\ - 04.50 \\ \hline 15.55 \end{array}$$



make a curtain = 4 m 50 cm

= $4\text{ m} + 0.50\text{ m}$

= 4.50 m

cloth is left with her = $20.05 - 4.50$
= 15.55 m

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∴ Decimals :-

Q. Namita travels 20 km 50 m every day. Out of this she travels 10 km 200 m by bus and the rest by auto. How much distance does she travel by auto?

Sol. do itself

Q. Aakash bought vegetables weighing 10 kg. Out of this, 3 kg 500 g is onions, 2 kg 75 g is tomatoes and rest is potatoes. What is the weight of the potatoes?

Sol.

Total weight of vegetables bought = 10.000 kg.

Weight of onions = 3 kg 500 g
= 3.500 kg

Weight of tomatoes = 2 kg 75 g
= 2.075 kg



Weight of potatoes = Total weight of vegetables bought
- (Weight of onions + Weight of tomatoes)



$$= 10.000 - (3.500 + 2.075)$$

$$= 10.000 - (5.575)$$

$$= 10.000 - 5.575$$

$$= 4.425 \text{ kg}$$

$$\begin{array}{r} 3.500 \\ + 2.075 \\ \hline 5.575 \\ 10.000 \\ - 5.575 \\ \hline 4.425 \end{array}$$

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-! Decimals! -

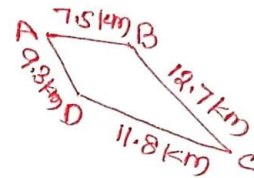
Q. Dinesh went from place A to place B and from there to place C. A is 7.5 km from B and B is 12.7 km from C. Ayub went from place A to place D and from there to place C. D is 9.3 km from A and C is 11.8 km from D. Who travelled more and by how much?

Sol.

Distance travelled by Dinesh

$$\begin{aligned}
 &= AB + BC \\
 &= (7.5 + 12.7) \text{ km} \\
 &= 20.2 \text{ km}
 \end{aligned}$$

$$\begin{array}{r}
 7.5 \\
 + 12.7 \\
 \hline
 20.2
 \end{array}$$



Distance travelled by Ayub

$$\begin{aligned}
 &= AD + DC \\
 &= (9.3 + 11.8) \text{ km} \\
 &= 21.1 \text{ km}
 \end{aligned}$$

$$\begin{array}{r}
 9.3 \\
 + 11.8 \\
 \hline
 21.1
 \end{array}$$

Hence, Ayub travelled more distance

$$\begin{aligned}
 \text{Difference} &= 21.1 - 20.2 \\
 &= 0.9 \text{ km}
 \end{aligned}$$



$$\begin{array}{r}
 21.1 \\
 - 20.2 \\
 \hline
 00.9
 \end{array}$$

Therefore, Ayub travelled 0.9 km more than Dinesh.

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∴ Decimals :-

Q. Shyama bought 5 kg 300g apples and 3 kg 250g mangoes. Sarla bought 4 kg 800g oranges and 4 kg 150g bananas. Who bought more fruits?

Sol. Total fruits bought by Shyama = 5 kg 300g + 3 kg 250g



$$= 5.300\text{kg} + 3.250\text{kg}$$

$$= 8.550\text{kg}$$



Total fruits bought by Sarla = 4 kg 800g + 4 kg 150g

$$= 4.800\text{kg} + 4.150\text{kg}$$

$$= 8.950\text{kg}$$

Therefore, Sarla bought more fruits.

Q. How much less is 28 km than 42.6 km

Sol. do it self



Q. multiplication :-

Find : $= 21102 \times 4$

$$= \frac{21102}{100} \times 4$$

$$= \frac{42204}{100}$$

$$= 422.04$$

Find : 0.05×7

$$= \frac{0.05}{100} \times 7$$

$$= \frac{35}{100}$$

$$= 0.35$$

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∴ Decimals :-

Q. Find :

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

Find :

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

$$\begin{array}{r}
 10001 \times 11 \\
 \hline
 10001 \\
 10001 \times \\
 \hline
 110011
 \end{array}$$

Q. Find

$$\begin{aligned}
 & 156.1 \times 100 \\
 &= \frac{1561}{10} \times 100 \\
 &= 1561 \times 10 \\
 &= 15610
 \end{aligned}$$

Find :-

$$\begin{aligned}
 &= 0.03 \times 1000 \\
 &= \frac{0.03}{100} \times 1000 \\
 &= 3 \times 10 \\
 &= 30
 \end{aligned}$$

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

Sol. length = 5.7 cm
breadth = 3 cm

$$\text{Area of rectangle} = \text{length} \times \text{breadth}$$

$$\begin{aligned}
 &= 5.7 \times 3 \\
 &= \frac{57}{10} \times 3 \quad \left| \quad \begin{array}{l} = \frac{161}{10} \\ = 16.1 \text{ cm}^2 \end{array} \right.
 \end{aligned}$$

$$\begin{array}{r}
 57 \times 3 \\
 \hline
 161
 \end{array}$$

17.

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-! Decimals !-

③. Division :-

④. Find :-

$$\begin{aligned}
 & 651.2 \div 4 \\
 &= \frac{651.2}{10} \div \frac{4}{1} \\
 &= \frac{651.2}{10} \times \frac{1}{4} \\
 &= \frac{1828}{10} \\
 &= 182.8
 \end{aligned}$$

Find :-

$$\begin{aligned}
 & 0.80 \div 5 \\
 &= \frac{0.80}{100} \div \frac{5}{1} \\
 &= \frac{80}{100} \times \frac{1}{5} \\
 &= \frac{16}{100} \\
 &= 0.16
 \end{aligned}$$

⑤. Find :-

$$\begin{aligned}
 & 7.75 \div 0.25 \\
 &= \frac{7.75}{100} \div \frac{0.25}{100} \\
 &= \frac{775}{100} \div \frac{25}{100} \\
 &= \frac{775}{100} \times \frac{100}{25} \\
 &= 31
 \end{aligned}$$

Find :-

$$\begin{aligned}
 & 37.8 \div 1.4 \\
 &= \frac{37.8}{10} \div \frac{1.4}{10} \\
 &= \frac{378}{10} \div \frac{14}{10} \\
 &= \frac{378}{10} \times \frac{10}{14} \\
 &= 27
 \end{aligned}$$

⑥. Find :-

$$\begin{aligned}
 & 2.7 \div 100 \\
 &= \frac{2.7}{10} \times \frac{1}{100} \\
 &= \frac{27}{1000} = 0.027
 \end{aligned}$$

Find :-

$$\begin{aligned}
 & 26.3 \div 1000 \\
 &= \frac{26.3}{10} \times \frac{1}{1000} \\
 &= \frac{263}{10000} = 0.0263
 \end{aligned}$$

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∴ Decimals :-

Q. A vehicle covers a distance of 43.2 km in 2.4 litres of petrol. How much distance will it cover in one litre of petrol?

Sol.

Distance covered in 2.4 litres of petrol = 43.2 km

Distance covered in 1 litre of petrol = $43.2 \div 2.4$

$$= \frac{43.2}{10} \div \frac{2.4}{10}$$

$$= \frac{432}{10} \times \frac{10}{24}$$

$$= 18 \text{ km.}$$



Q. A car covers a distance of 89.1 km in 2.2 hours. What is the average distance covered by it in 1 hour?

Sol.

Distance covered by the car = 89.1 km

Time required to this distance = 2.2 hours

Distance covered in 2.2 hours = 89.1 km

Distance covered in 1 hour = $89.1 \div 2.2$

$$= \frac{89.1}{10} \div \frac{2.2}{10}$$

$$= \frac{891}{10} \times \frac{10}{22}$$

$$= \frac{81}{2} = 40.5 \text{ km}$$

19.



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+ Decimals :-

Q. Each side of a regular polygon is 2.5 cm in length. The perimeter of the polygon is 12.5 cm. How many sides does the polygon have?

Sol.

$$\text{Perimeter of regular polygon} = 12.5 \text{ cm}$$

$$\text{Side of polygon} = 2.5 \text{ cm}$$

$$\begin{aligned} \text{No. of sides of polygon} &= 12.5 \div 2.5 \\ &= \frac{12.5}{10} \div \frac{2.5}{10} \\ &= \frac{125}{10} \times \frac{10}{25} \\ &= 5 \end{aligned}$$

Q. Find the average of 4.2, 3.8 and 7.6

Sol.
$$\text{Average} = \frac{\text{Sum of no. of terms}}{\text{Total no. of terms}}$$



$$= \frac{4.2 + 3.8 + 7.6}{3}$$

$$= \frac{15.6}{3}$$

$$= 5.2$$

$$\begin{array}{r} 4.2 \\ + 3.8 \\ + 7.6 \\ \hline 15.6 \end{array}$$