

**ATOMIC ENERGY CENTRAL SCHOOL – 1**  
**Anushaktinagar, Mumbai – 400 094**

**Chapter 8**

**DECIMALS**

**Subject: Mathematics**

**Module 3**

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**ADDITION OF DECIMALS**

Addition of decimals is like addition of whole numbers. For addition of decimal numbers we place the decimals one below the other such that the decimal points are in a vertical line. The digits are in their proper place-

Ones below ones

Tenths below tenths

Hundredths below hundredths and so on....

Then we add them like whole numbers and place the decimal point in the sum vertically below the other decimal points.

**Eg. 1) Find the sum:**

(a)  $0.29 + 0.36$

(b)  $0.7 + 0.08$

(c)  $1.54 + 1.80$

(d)  $2.66 + 1.85$

**Answer (a)  $0.29 + 0.36$**

Ones	Tenths	Hundredths
0	2	9
+ 0	3	6
0	6	5

**Thus,  $0.29 + 0.36 = 0.65$**

**Answer (b)  $0.29 + 0.36$**

Ones	Tenths	Hundredths
0	7	
+0	0	8
0	7	8

**Thus,  $0.07 + 0.08 = 0.78$**

**Answer (c)**  $1.54 + 1.80$

Ones	Tenths	Hundredths
1	5	4
+ 1	8	0
3	3	4

**Thus,  $1.54 + 1.80 = 3.34$**

**Answer (d)**  $2.66 + 1.85$

Ones	Tenths	Hundredths
2	6	6
+ 1	8	5
4	5	1

**Thus,  $2.66 + 1.85 = 4.51$**

**Eg: 2)** Nutan bought 3m 20m cloth for her shirt and 2 m 5 cm for her skirt. Find the total cloth bought by her.

**Answer 2)** Cloth for shirt = 3 m 20 cm = 3.20 m

Cloth for skirt = 2 m 5cm = 2.05 m

Total cloth bought by Nutan = **5.25 m**

So, the total cloth by Nutan = 5.25 km

**Eg.3)** Suman travels 10 km 388m by bus, 6 km 8 m by taxi and 750 m by foot to reach her school. Find the distance she has to travel to reach her school.

**Answer 3)** Distance travelled by bus = 10 km 388 m = 10.388 km

Distance travelled by taxi = 6 km 8 m = 6.008 km

Distance travelled by foot = 750 m = + 0.750 km

Total distance travelled by Suman = **17.146 km**

So, total distance travelled by Suman to reach school = 17.146 km.



**Answer a) 1.85 from 5.46**

Ones	Tenths	Hundredths
5	4	6
- 1	8	5
3	6	1

**Thus,  $5.46 - 1.85 = 3.61$**

**Answer b) 5.25 from 8.28**

Ones	Tenths	Hundredths
8	2	8
- 5	2	5
3	0	3

**Thus,  $8.28 - 5.28 = 3.03$**

**Answer c) 10.95 from 28.29**

Tens	Ones	Tenths	Hundredths
2	8	2	9
- 1	0	9	5
1	7	3	4

**Thus,  $28.29 - 10.95 = 17.34$**

**Answer d) 72.25 from 500.68**

Hundreds	Tens	Ones	Tenths	Hundredths
5	0	0	6	8
-	7	2	2	5
4	2	8	4	3

**Thus,  $500.68 - 72.25 = 428.43$**

e) 27.8 from 45.03

$$\begin{array}{r} 45.03 \\ - 27.80 \\ \hline \underline{17.23} \end{array}$$

(f) 53.05 from 128.4

$$\begin{array}{r} 128.40 \\ - 53.05 \\ \hline \underline{75.35} \end{array}$$

**Eg. 6) Find the value of**

a)  $21.05 - 15.27$

b)  $18.5 - 6.79$

c)  $91.001 - 72.9$

d)  $108.032 - 86.8$

e)  $9.756 - 6.28$

**Answer a)**  $21.05$

$$\begin{array}{r} 21.05 \\ - 15.27 \\ \hline \underline{5.78} \end{array}$$

b)  $18.50$

$$\begin{array}{r} 18.50 \\ - 6.79 \\ \hline \underline{11.71} \end{array}$$

c)  $91.001$

$$\begin{array}{r} 91.001 \\ - 72.900 \\ \hline \underline{18.101} \end{array}$$

d)  $108.032$

$$\begin{array}{r} 108.032 \\ - 86.800 \\ \hline \underline{21.232} \end{array}$$

e)  $9.756$

$$\begin{array}{r} 9.756 \\ - 6.280 \\ \hline \underline{3.476} \end{array}$$

### PROBLEM SUMS

**Eg. 7)** Sameer drove 89.050 km on Sunday and 73.9 km on Monday. How many more kilometres did he drive on Sunday?

**Answer:** Distance covered on Sunday = 89.050 km

Distance covered on Monday =  $\underline{- 73.900 \text{ km}}$

More distance covered on Sunday =  $\underline{15.150 \text{ km}}$

**Sameer covered 15.15km more on Sunday.**

**Eg. 8)** Gopi bought a pen for Rs 27.50. He gave Rs 100 to the shopkeeper. How much money will Gopi get back from the shop keeper?

**Answer:** Money given to shopkeeper = Rs. 100.00  
Cost of pen = - Rs 27.50  
Money received from shopkeeper = **Rs 72.50**

**Gopi got Rs 72.50 back from the shopkeeper.**

**Eg. 9)** Rimi bought mangoes weighing 10 kg 850 g. She gave 3 kg 200 g to her sister. Find the weight of mangoes left with her.

**Answer:** Weight of mangoes bought = 10.850 kg  
Weight of mangoes given = - 3.200 kg  
Weight of mangoes left = **7.650 kg**

**Rimi had 7.650 kg of mangoes left with her.**

**Eg. 10)** Tarun walked 8.62 km on Monday, 7.05 km on Tuesday and some distance on Wednesday. If he walked 21.01 km in three days, how much distance did he walk on Wednesday?

**Answer:** Distance walked on Monday = 8.62 km  
Distance walked on Tuesday = + 7.05 km  
Total distance walked in two days = **15.67 km**

Total distance walked in three days = 21.01 km.

Total distance walked in two days = - 15.67 km

∴ Distance walked on Wednesday = **5.34 km**

**Tarun walked 5.34 km on Wednesday.**

**ASSIGNMENT: Complete Exercise 8.6 of mathematics textbook.**