Weighted !	Mean Xw		
X <sup>N</sup> =	EW.X.,	SINIA - PA	of meights ioduct of meights adobsernations
(S) Commodity	(n) Price (\(\frac{2}{2}\) perkg) (observatione)	(W)	W·x
Flour	25	1 D	250
Sugar	40	3 5	120
		20	€W.x= 670
EW= 20 EW·X=		Teacher's Signa	= 670 20 - 33.5 Au

7) C.I	Cf	f	m	f-m
0-10	15	15	5	75
10-20	35	20	15	300
20-30	60	25	25	625
30-40	85	25	35	875
40-50	90	5	45	225
		90		2100
5	= 5	fm	210	0 = 23.33/4
		N	90	- (43.33 Ans

(8) C.I	Cf	t	m	d=m-c	fd'	
				A	ta	
0-10						
5-10	25	5	7.5	-10 =-2	-10	
15-20	20 12	8	12.5	-1	- 8	
20-25	9	3 4		0	0	
25-30	5	5	22.5	2	4	
		25	Q 1 3	- ~	10	
X	= A+	5121				
	AT	N	XC			
		//				
-	- 17.5	-4 x	<u> </u>			
	- 17.5	255	3			
	17.5					
	= 16.7	Marce	۸			
(21) Aver	age = .	40				
No.	of pla	yers =	1.1			
T	otal lu	Ins =	Letsas	sumo 2		
	× =	40				
		10×11 =	440			
41	10-11=	429	-> cos	rect tot	al rung	
Α.	reliago =	429	- 29 Tec	cher's Signature :		
	1	11	- 5/1/4	icher's Signature : .		

		(f)		
(23.)	Age (x)	No of persons	f.x	
	0	0		
	20		20	
	21	2	42	
	22	4	88	
	N	2	Su	
	24	15	360	
	25	23	575	
		50_	1085 + 52	
-	$\overline{x} =$	24		
				1085+5x=1200
	<del>\ \ \ \ =</del>	2f.m		5x = 1200-1085
		N		5x = 115
	(, 24	= 1085	+ Co.	x= 115
	9.7	5		5
		>	0	n = 23 years.
	24	X50 = 108	5+5n	
		1-10	_	
			Tead	her's Signature :

26.	Mean meight = 70 kg Mean Weight = 55 kg Total bloys = 50 Total girls = 100
	For boys $x = Total meight$ $y = Total meight$ 1, $70 = 2$ 50  1, $55 = \frac{y}{100}$
	n = 3500 y = 5500 Total meight of boys + girle = 3500 + 5500 = 9000
	Total no. of boys + girls - 50+100=150
	Mean weight of
	= 60 Kg

## weighted Mean

the following table gives the quantity of different commodities purchased at various prices:

Section 2017		Commission.
Commodity	Price (7 per kg)	Quantity Purchased (in kg)
Flour	25	10
oil	100	2
Sugar	40	3
Potato	20	5

pking quantity purchased as weights, find weighted Arithmetic average of the prices.

[Ans: ₹ 33.50]

A student obtained 82 marks in commerce, 86 marks in accountancy, 90 marks in mathematics and 70 marks in English. Calculate Weighted Mean of the marks if weights given to these subjects are 3, 5, 3 and 1 respectively.

[Ans: 84.67 marks]

## ppical Problems

and the Arithmetic Mean of the data given below:

3	7						Ace
	Daily pocket money (in ₹):	Below	10	20	30	40	50
	Frequency:		15	35	60	85	90
v							

50 (Ans: ₹37 App.]

petermine the Arithmetic Mean of the following data:

Marks:	More than	5	10	15	20	25
No. of students:		25	20	12	9	5

[Ans: 16.7 marks]

19. Calculate the Arithmetic Mean of the following frequency distribution:

Marks	No. of students
Less than 10	4
10-20	6
20-30	20
30-40	10
40-50	7
More than 50	3

[Ans: 28.8 marks]

20 Calculate the Mean of the following data by converting them into grouped data:

Mid-value:	22	24	26	28	30	32
Frequency:	15	17	22	23	13	10

[Ans: 26.64]

II. In a cricket match the average runs made by 11 players were calculated as 40. Later on it was discovered that the score of a player who had actually made 11 runs was read as 22. Find the correct average.
[Ans: 39 runs]

22 Mean marks obtained by a student in his five subjects are 78. He has secured 80 marks in economics, 85 in mathematics, 70 in commerce, and 75 in accountancy. Find the marks he has secured in English.

[Ans: 80 marks]

40	11	rithmetic	Mean of	the fo	Haurina	corios	in 24
	91 JA		Mean of	me to	HOWHILE	senes	15 24.

Age in years:	20	21	22	X	24	25
Number of persons:	1	2	4	5	15	23

[Ans: Missing item X = 23 years]

Find the missing item X.

24. The average daily wage of the following series is ₹41.

Daily wages (₹)	20	30	40	50	60	70
No. of workers:	. 8	12	X	10	6	4

Find the missing frequency X.

[Ans: 20 workers]

25. Arithmetic Mean of the following data is 25.4.

X:	10-20	20-30	30-40	40-50	50-60
Frequency:	20	15	Y	3	2

Find the missing frequency Y.

[Ans: 10]

The Mean weight of 50 boys in a class is 70 kg, and the Mean weight of 100 girls in that class is 55 kg. Find the combined Mean weight of boys and girls taken together. [Ans: 60 kg]