x= 14+26 or 14-26

x is speed and hence the value -12 can be discarded..'. x=40 Speed from home to town=x =40 Km/hr Speed from city to home=x+20=60 Km/hr

- a) 10x  $(\frac{60}{48})$  =12.5 minutes b)  $x^2 28x 480 = 0$
- c) Speed from home to town =40 Km/hr Speed from city to home=60 Km/hr

15.

300	X	350				
11	16.5	21				
(x-300) $(350-300)$					$(x-300)_{-}$	50
$(16.5-11)^{-1}(21-11)^{-1}$					5.5	10

$$(x-300)=5.5 \times \frac{50}{10}$$
 . '.  $x=300+27.5=327.5$ 

Median of Daily wages=327.50 Rs.

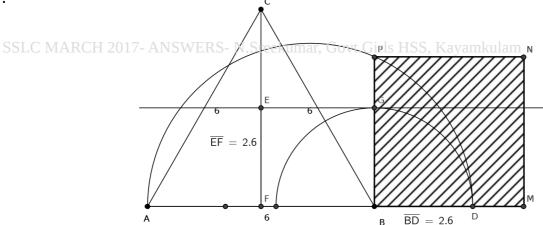
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Below 250 3  ,, 300 11  ,, 350 21  ,, 400 27  ,, 450 31  ,, 500 33		
,, 350 21 ,, 400 27 ,, 450 31	Below 250	3
,, 400 27 ,, 450 31	,, 300	11
,, 450 31	" 350 <sup>°</sup>	LC MARC 21
500 33	,, 400	27
,, 500 33	,, 450	31
	,, 500	33

N=33/2=16.5

400 27

16.



17. a) 
$$\frac{(15 \times 16)}{2} = 15 \times 8 = 120$$
 b)  $\frac{15}{2} (2f + 14 \times 6) = 780$ .  $\frac{15}{2} \times 2(f + 42) = 780$ 

 $15f+15 \times 42=780$ .'.15f=780-630=150.'.f=10.'. Algebraic form of the sequence=6n+10-6=6n+4 Algebraic Expression of the sum of the sequence =  $3n^2+7n$ 

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 $n^{th}$  term =6n+1 .'. Common Difference (d)=6 First term (f)=6n+1=6x1+1=7 or (In an+b, f=a+b and d=a)

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