$$
x=14+26 \text { or } 14-26
$$

$x$ is speed and hence the value -12 can be discarded..'. $x=40$ Speed from home to town=x $=40 \mathrm{Km} / \mathrm{hr}$
Speed from city to home $=x+20=60 \mathrm{Km} / \mathrm{hr}$
a) $10 x\left(\frac{60}{48}\right)=12.5$ minutes b) $x^{2}-28 x-480=0$
c) Speed from home to town $=40 \mathrm{Km} / \mathrm{hr}$ Speed from city to home $=60 \mathrm{Km} / \mathrm{hr}$
15.

| 300 | x | 350 |
| :---: | :---: | :---: |
| 11 | 16.5 | 21 |

Median of Daily wages=327.50 Rs.

| Below 250 | 3 |
| ---: | :---: |
| , 300 | 11 |
| , 350 | 21 |
| , 400 | 27 |
| , 450 | 31 |
| ,, 500 | 33 |

$\mathrm{N}=33 / 2=16.5$
16.

17. a) $\frac{(15 \times 16)}{2}=15 \times 8=120$
b) $\frac{15}{2}(2 f+14 \times 6)=780 .^{\prime} \cdot \frac{15}{2} \times 2(f+42)=780$
.'.
$15 f+15 \times 42=780 .^{\prime} .15 f=780-630=150 .^{\prime} . f=10 .{ }^{\prime}$. Algebraic form of the sequence $=6 n+10-6=6 n+4$
Algebraic Expression of the sum of the sequence $=3 n^{2}+7 n$

## OR

$n^{\text {th }}$ term $=6 n+1$. Common Difference $(d)=6$ First term $(f)=6 n+1=6 x 1+1=7$ or $(\operatorname{In} a n+b, f=a+b$ and $d=a)$
N.Sreekumar, Govt. HSS for Girls, Kayamkulam, Alappuzha District. Mob. 9447121177

