$X = 9, 12, 13, 16, 19, 12, 18, 0, 9, 12, 6$

Mean $= \frac{\sum_{i=1}^{n} x_i}{n}$

$= \frac{9+12+13+16+19+12+18+0+9+12+6}{11} = \frac{126}{11} = 11.45$

Median: odd $= \left(\frac{n+1}{2}\right)^{th}$ term $= \left(\frac{11+1}{2}\right) = \frac{12}{2} = 6^{th}$ term $\Rightarrow 12$

Mode $\Rightarrow$ 0, 6, 9, 9, 12, 12, 12, 13, 16, 18, 19 $\Rightarrow 12$.

Range $=$ max(x) $-$ min(x)

$= 19 - 0$

$= 19$

Variance $= \sigma^2 = \frac{\Sigma (x_i - \bar{x})^2}{N}$

$= (9 - 11.46)^2 + (12 - 11.46)^2 + (13 - 11.46)^2 + (16 - 11.46)^2 + (19 - 11.46)^2 +$
$(12 - 11.46)^2 + (18 - 11.46)^2 + (0 - 11.46)^2 + (9 - 11.46)^2 + (12 - 11.46)^2 +$
$(6 - 11.46)^2 / 11$

$= \frac{296.436}{11}$

$\sigma^2 = 26.9487 \simeq 27$ (approx)

S.D $\Rightarrow \sqrt{\sigma^2} = \sqrt{27} = 5.19$

x	f	cf
6	5	
1	2	
10	5	
12	9	
14	10	

Mean $\bar{x} = \frac{\Sigma x_i F_i}{F_i} \Rightarrow \frac{30+2+50+108+140}{31} = \frac{330}{31}$

Mean = 10.64

~~Median = $\frac{N}{2}$ → $\frac{31}{2}$ = 15th term~~

Median = $2 + \left(\frac{\frac{N}{2} - CF}{f}\right) \times h$

x	f	cf
1	2	2
6	5	7
10	5	12
12	9	21
14	10	31

Median = $11 + \left(\frac{15.5 - 12}{9}\right) \times 2$

= 11.78.

Mode : 14.

Range = max(x) - min(x)

= 14 - 1 = 13.

$$\sigma^2 = \frac{\Sigma f x^2}{N} - \bar{x}^2$$

$$= \frac{3938}{31} - (10.64)^2$$

$$\boxed{\sigma^2 = 13.74}$$

$$S.D = \sqrt{\sigma^2}$$

$$= \sqrt{13.74}$$

$$\boxed{S.D = 3.708}$$