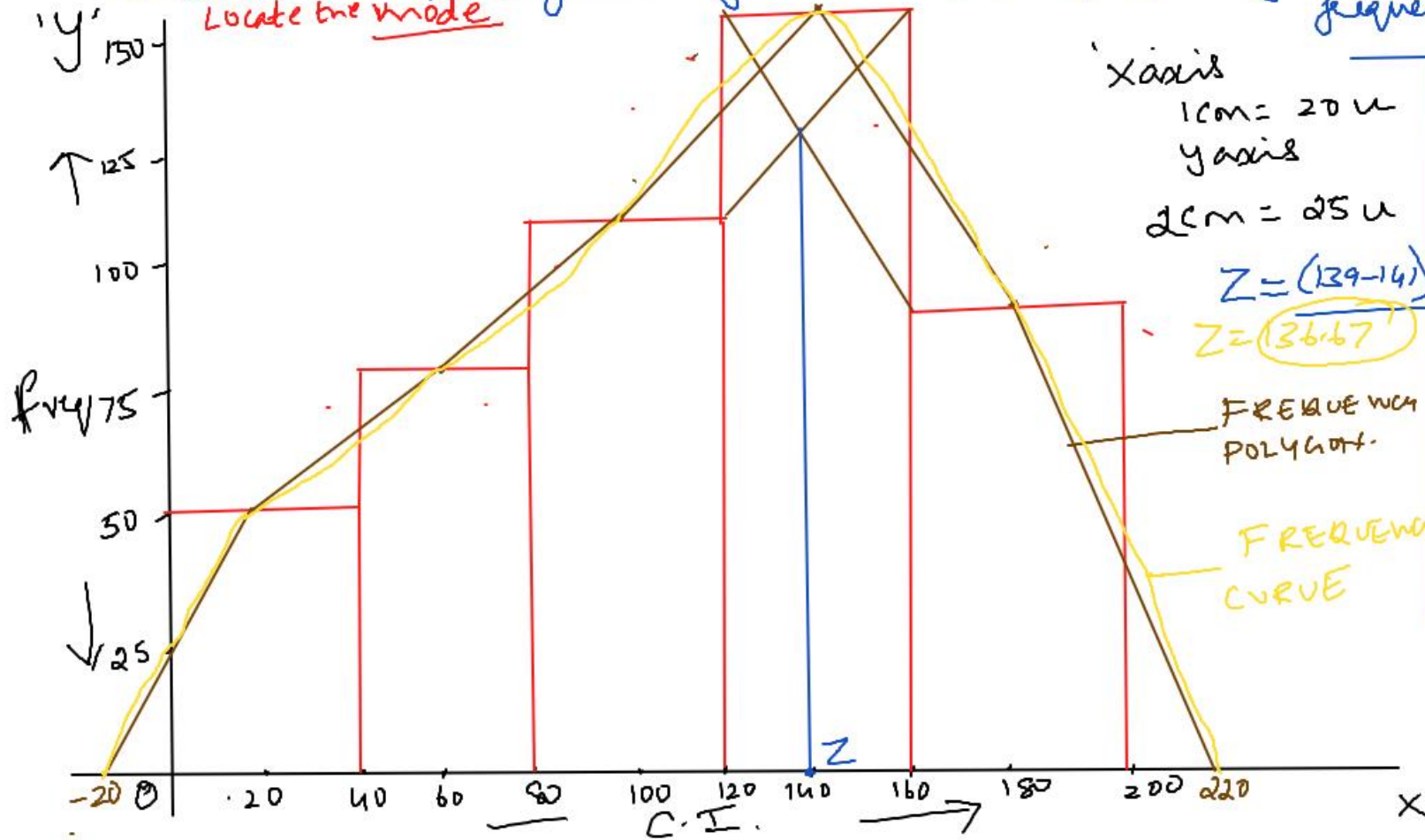


Q) Draw a Histogram & make the frequency curve & frequency polygon  
 Locate the mode



X axis  
 1cm = 20 u  
 Y axis  
 2cm = 25 u  
 $Z = \frac{(129-141)}{10}$   
 $Z = 1.3667$

C.I	f
0-40	50
40-80	75
80-120	100
120-160	150
160-200	80

FREQUENCY POLYGON

FREQUENCY CURVE

Q) Fit a PD & obtain the th freq (theoretical freq)

$x$	$f(x)$	$(E_i)$	$fx$
0	26	$T_0 = 22$	0
1	33	$T_1 = 43$	33
2	46	$T_2 = 41$	
3	27	$T_3 = 26$	
4	12	$T_4 = 12$	
5	5	$T_5 = 5$	
6 & more	1	$T_6 = 2$	
N = 150		(150)	

$$\lambda = \text{mean} = \frac{\sum fx}{N} = \frac{285}{150} = 1.9$$

$$T_0 = N \cdot \frac{e^{-\lambda} \lambda^x}{x!}$$

$$T_0 = 150 \times \frac{e^{-1.9} 1.9^0}{0!} = 150 \times 0.1496 =$$

$$T_1 = \frac{\lambda}{x} \times T_{(x-1)}$$

$$T_1 = \frac{1.9}{1} \times 22.43 = 42.64$$

$$T_2 = \frac{1.9}{2} \times 42.64 = 40.51$$

$$T_3 = \frac{1.9}{3} \times 40.51 = 25.66$$

$$T_4 = \frac{1.9}{4} \times 25.66 = 12.19$$

$$T_5 = \frac{1.9}{5} \times 12.19 = 4.63$$

$$T_6 = \frac{1.9}{6} \times 4.63 = 1.46$$