To find $x+y$ we form the system

b) $\begin{cases} x+y=3 & \text{---①} \\ (2x+y=5)\ (-1) \end{cases}$

$\begin{cases} x+y=3 \\ -2x-y=-5 \end{cases}$ add

$-x=-2$

$\boxed{x=2}$

Sub. value of x in eqn ① to get

$x+y=3$

$2+y=3$

Thus, $\boxed{y=1}$

3) Frequency of pants $= 2x-y+4$

$= 4-1+4$

$= \boxed{7}$

Frequency of sweater $= -2xy+3y+10$

$= -2(2)(1)+3(1)+10$

$= \boxed{9}$

Frequency of T-shirts $= x+y-1$

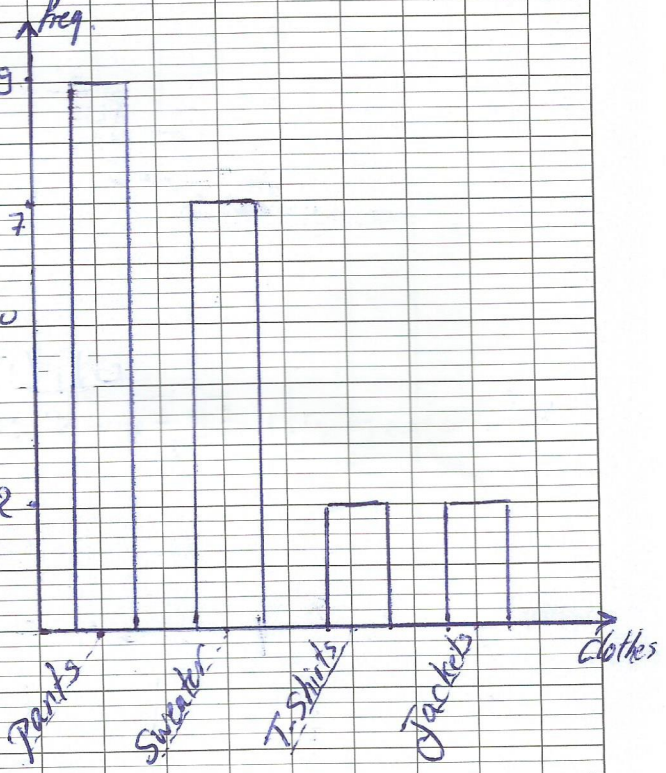
$= 2+1-1$

$= \boxed{2}$

Frequency of Jackets $= 2xy-2$

$= 2(2)(1)-2$

$= 2$



Part-B:

1a) The %ICF of shoe size 38 means the percentage of shoes whose size is at most 38 is 33.75%.

b)

Shoe size	37	38	41	42	Total
n_i	5	$a=22$	17	$b=36$	80
%ICF	$\frac{5}{80}\times 100 = 6.25\%$	33.75%	$\frac{44}{80}\times 100$	$\frac{80}{80}\times 100 = 100$	

$\frac{a}{80}\times 100 = 33.75 - 6.25$

$a = \frac{27.5\times 4}{5} = 22$

$5+22+17+b=80$

$b = 80-44 = 36$