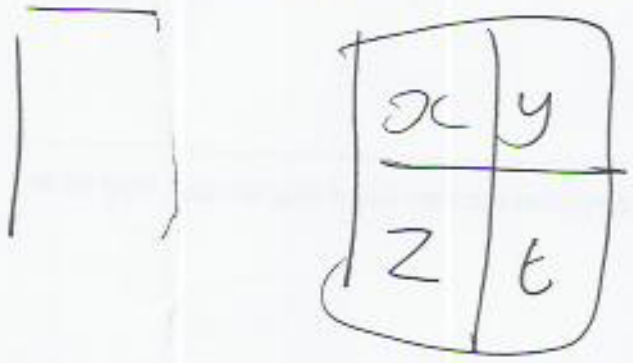
1) (A)



$2x+2y+2z+2t=150$

$x+y+z+t=75$

Suppose $x>y>z>t\geq 1$

~~$10(2x+2z)+2$~~

$10x+y+10z+t+10x+z+10y+t=150$

$20x+11y+11z+2t=150$

~~Suppose x~~

y, z both even or both odd.

$2(10x+t)+11(y+z)=150$

$x\neq 9,8,7,6$

$x=5$ $\quad 2t+11(y+z)=\cancel{150}$

~~$y=1, z=3$ $\quad t=3$~~

~~$y=3, z=1$ $\quad t=3$~~ (2)

$x=4$ $\quad 2t+11(y+z)=\cancel{70}$

$y=1, z=5$ $\quad t=2$ (2)

~~$y=2, z=4$ $\quad t=2$~~

$y=5, z=1$ $\quad t=2$

$x<3$

~~$y=4, z=2$ $\quad t=2$~~

$2t+11(y+z)=90$

~~$y=2, z=6$ $\quad t=1$~~

$y=7, z=6$ $\quad t=1$ (2)