$$Cp \ (Ideal) = UCL - LGL = 3.53 - 3.45 = 0.605 \approx]0.63$$

$$Cpu = \frac{u\zeta L - M}{3\sigma} = \frac{3.53 - 3.51}{3 \times 0.016} = 0.417$$

$$CpL = \frac{M - L\zeta L}{3\sigma} = \frac{3.51 - 3.47}{3 \times 0.016} = 0.833$$

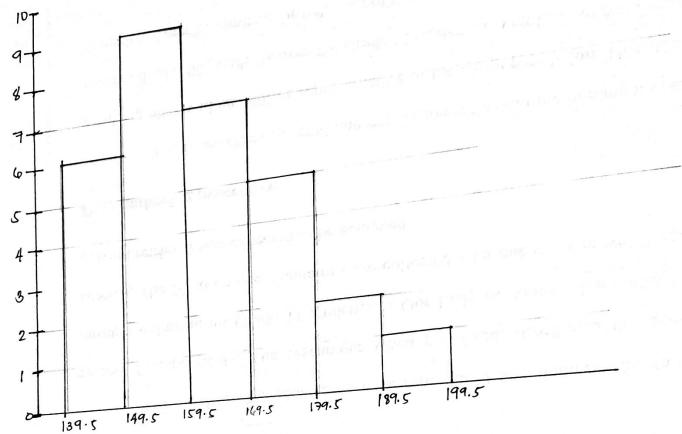
$$41 - 42$$
 $Cp (Ideal) = \frac{USL - LSL}{60} = \frac{49 - 38}{6 \times 0} = 0.916 = 0.92$

$$Cpu = \frac{USL - M}{3.0} = \frac{49 - 40}{3 \times 2} = 1.5$$

$$\frac{CPL = M - LSL}{3\sigma} = \frac{40 - 3B}{3 \times 2} = 6.83$$

Part 2

1.



b 7 people

c. 9+6 = 15 people

d. 5+2+1 - 8 people

-f. (9+7+5)/30 = 0.7 = 70%

. g skew right

