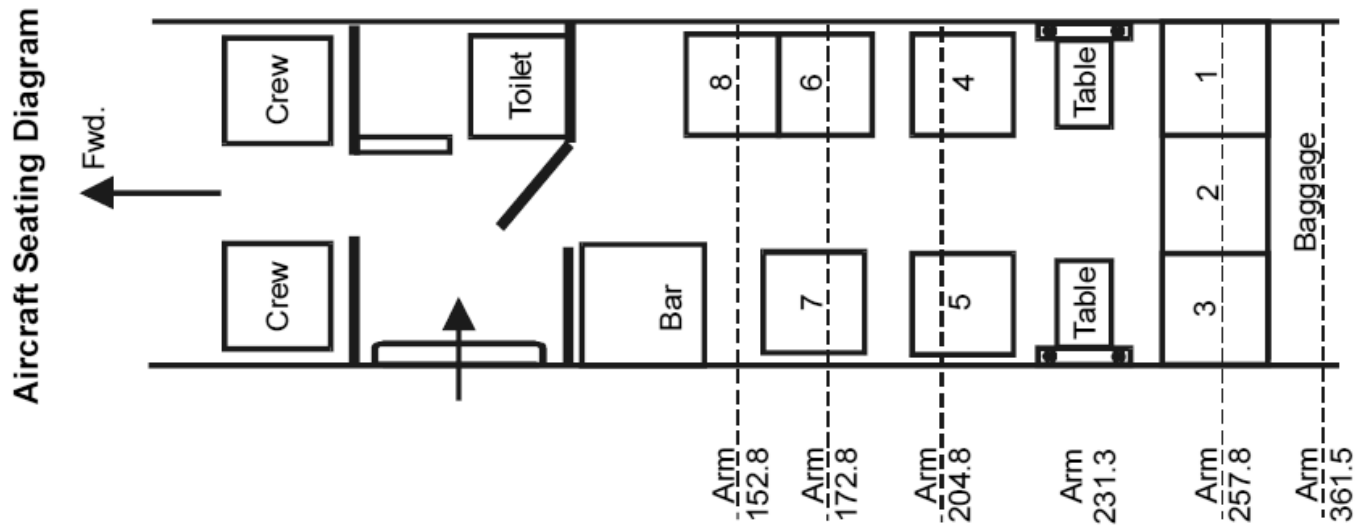


Q35

ATPL Solutions - Effect of Weight Relocation

$$\begin{aligned} \text{Change in CG} &= \frac{\text{mass moved} \times \text{distance moved}}{\text{Total weight}} = \frac{250 \times (172.8 - 257.8)}{19,836} \\ &= -1.07'' \end{aligned}$$



$$\text{CG on landing} = 277.045 - 1.07 = 275.92 = 24.35\% \text{ MAC}$$