$$\begin{array}{ll}
O & E\left(10K_1\hat{\Theta}_1 + 10K_2\hat{\Theta}_2\right) = \Theta & \text{U.E. def.} \\
E\left(10K_1\hat{\Theta}_1\right) + E\left(10K_2\hat{\Theta}_2\right) = \Theta & \text{properties of expected value} \\
10K_1E(\hat{\Theta}_1) + 10K_2 \cdot E(\hat{\Theta}_2) = \Theta & \text{expected value} \\
10K_1\Theta + 10K_2\Theta & = \Theta & E(\hat{\Theta}) = \Theta & \text{since we} \\
10K_1 + 10K_2 & = 1 \\
K_1 + K_2 & = 1/10 & \text{solution}
\end{array}$$

$$\begin{array}{ll}
A = 322 & \text{is even} \Rightarrow M = \frac{1}{2}\left(X_{\underline{\Theta}} + X_{\underline{\Theta}} + X_{\underline{\Theta}} + X_{\underline{\Theta}}\right) \\
M = \frac{1}{2}\left(X_{\underline{\Theta}} + X_{\underline{\Theta}} + X_{\underline{\Theta}}\right)$$

$$M = \frac{1}{2}\left(X_{\underline{\Theta}} + X_{\underline{\Theta}} + X_{\underline{\Theta}}\right)$$

9
$$E(\hat{\beta}) = \frac{n+1}{n}\beta$$
 Solve for β

$$E(\frac{n}{n+1}\hat{\beta}) = \beta$$

$$E(\frac{n}{n+1}\hat{\beta}) = \beta$$

$$23\%$$

$$21/ps$$

(17) IRR =
$$Q_3 - Q_1 = 71 - 66 = 5$$

Extreme

below
$$66-3(5) = 51$$
 None Since the min = 52 above $71+3(5) = 86$ $(87,90)$