

TP → 34
FP → 13
FN → 18
TN → 85

* Accuracy = $\frac{TP+TN}{\text{Total Sample}} = \frac{34+85}{150} = 0.79$
 * Error = $1 - \text{Accuracy} = 1 - 0.79 = 0.206$

* Precision is also known as positive predicted value
 * Precision of Class Yes = $\frac{TP}{TP+FP} = \frac{34}{34+13} = 0.723$

* Precision of Class No = $\frac{TN}{TN+FP} = \frac{85}{85+13} = 0.825$

* Recall is also known as True positive Rate
 * Recall of class Yes = $\frac{TP}{TP+FN} = \frac{34}{34+18} = 0.653$

* Recall of class No = $\frac{TN}{TN+FP} = \frac{85}{85+13} = 0.867$

* F-0.5 of class Yes = $\frac{(1+0.653)}{2} \times (\text{Precision} \times \text{Recall})$
 $= \frac{(1+0.653)}{2} \times (0.723 \times 0.853)$
 $= 0.723 \times 0.653$
 $= 0.472$

→ Recall
 → Precision
 → F1, F0.5, F2 Score
 → Support
 → Micro F1
 → Weighted Average
 → Cohen's Kappa
 BLC - NO sum to 1
 Predicted Value

	Predicted Value			Total
	A	B	C	
A	34	13	5	52
B	18	52	0	52
C	0	0	83	83
Total	47	65	38	150

A	TP	FN	TP+FN
B	FP	TN	FP+TN
C			
Total	TP	TN	TP+TN

TP → 34	FN → 13+5
FP → 0+13	TN → 52+83
TN → 85	

F-0.5 of class No = $\frac{(1+0.8)}{2} \times (\text{Precision of No} \times \text{Recall of No})$
 $= \frac{1.25}{2} \times (0.825 \times 0.867)$
 $= 0.538$

F-1 of class Yes = $\frac{(1+1)}{2} \times (\text{Precision of Yes} \times \text{Recall of Yes})$
 $= \frac{2 \times (0.723 \times 0.653)}{1+1}$
 $= 0.686$

F-1 of class No = $\frac{(1+1)}{2} \times (\text{Precision of No} \times \text{Recall of No})$
 $= \frac{2 \times (0.825 \times 0.867)}{1+1}$
 $= 0.8451$

F-2 of class Yes = $\frac{(1+2)}{3} \times (\text{Precision of Yes} \times \text{Recall of Yes})$
 $= \frac{3 \times (0.723 \times 0.653)}{1+2}$
 $= 1.470$

F-2 of class No = $\frac{(1+2)}{3} \times (\text{Precision of No} \times \text{Recall of No})$
 $= \frac{3 \times (0.825 \times 0.867)}{1+2}$
 $= 2.112$