Actual	Prediction			
1 ✓	1 ✓	✓✓	✓	
0 ✓	1 ✓			
0 ✓	1 ✓			
1 ✓	0			
1 ✓	0			
1 ✓	1 ✓	✓✓	✓	
0 -	0	✓		
0 ✓	0	✓		
0 ✓	0	✓		
0 ✓	0	✓		
1 ✓	0			
1 ✓	0			
0 -	1 ✓			
0 ✓	1 ✓			
0 ·	1 ✓			
1 ✓	1 ✓	✓ ✓	✓	
0 ✓	0	✓		
0 ✓	0	✓		
1 ✓	1 ✓	✓✓	✓	
1 ✓	1 ✓	✓✓	✓	

$$A = \frac{TP + TN}{TP + TN + FP + FN}$$

Accuracy = Total Correct Predictions / total predictions = 11/20 = 0.55*100 = 55.0%
Recall - By default the meaning of recall is the correct predictions in class 1
Recall = correct predictions in class 1 / total actuals in class 1
Recall = 5/9 = 0.5556 (recall for class 1)
Recall of class 0 = 6/11 = 0.5455

$$Recall = \frac{TP}{FN + TP}$$

Precision = purity in predictions
Precision - it refers to class 1, => correct predictions in class 1 / total predictions in class 1
Precision for class 1 = 5/10 = 0.5
Precision for class = 6/10 = 0.6

$$Precision = \frac{TP}{TP + FP}$$

Predictions

Actuals		negative 0	positive 1
	0	TN	FP
	1	FN	TP

$$F1\ Score = \text{harmonic mean of } R \& P$$

$$F1\ Score = \frac{2}{\frac{1}{R} + \frac{1}{P}} = \frac{2 \times P \times R}{P + R}$$