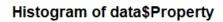
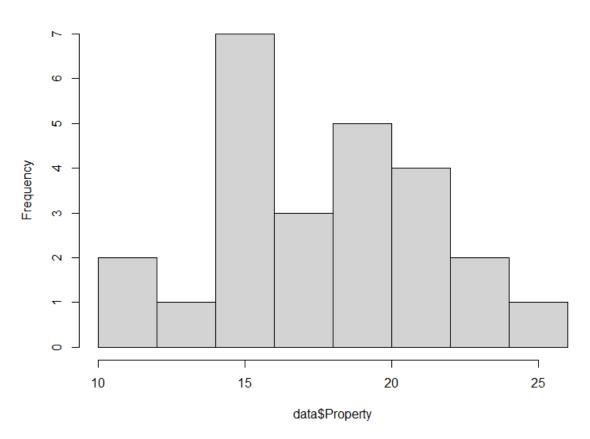
## Histogram:





## 1. SVM

The SVM model's findings after being trained and tested using the provided dataset are shown below:

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truth	truth
svm.pred_train -1 1	svm.pred_test -1 1
-1 8 4	-1 3 0
1 26	1 0 2
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SVM_Train_R2 = 0.7	SVM_Test_R2 = 1
Sensitivity=0.8	Sensitivity=1
Specificity=0.6	Specificity=1

## 2. Logistic Regression

The logistic regression model's findings after being trained and tested using the provided dataset are shown below:

logistic_Train_R2 = 0.6	logistic_Test_R2 = 1
Sensitivity 0.6	Sensitivity 1
Specificity 0.6	Specificity 1

On the test data, the models for logistic and SVM are producing good results, although 100% accuracy is not the desired outcome. The modest size of the data collection may have contributed to the high accuracy.

Given that both models' accuracy is high, I have a moderately high confidence in them. The approaches listed below are less dependent on the distribution of test and training data. As a result, altering the distribution of the data will not reveal any appreciable variations.

One of the key features for defining the model is feature 4, which has a high correlation with the property field. In a similar vein, feature 3, which is not correlated with any other fields, also has a respectable impact on the model constructed.