

### ZeroR and OneR worked examples

	Attribute 1	Attribute 2	Class
Record 1	red	large	B
Record 2	blue	large	A
Record 3	green	large	B
Record 4	blue	small	A
Record 5	green	small	B
Record 6	red	small	B
Record 7	red	small	C

#### ZeroR

What prediction is made on this set by ZeroR ?

**Class = B**

Accuracy (on the training set) =  $4/7 = 0.57$

#### OneR

What are the potential rules derived by OneR?

Rule 1: If Attribute 1 = red then class = B ;  
if Attribute 1 = blue then class = A ;  
if Attribute 1 = green then class = B

Accuracy (on the training set) =  $5/7 = 0.71$

Rule 2: If Attribute 2 = large then class = B ;  
if Attribute 2 = small then class = B.

Accuracy (on the training set) =  $4/7 = 0.57$

The chosen rule is: **Rule 1**