

< Decision Tree - Regression Trees >

- generalize decision tree to be regression algorithm \Rightarrow predict number not category

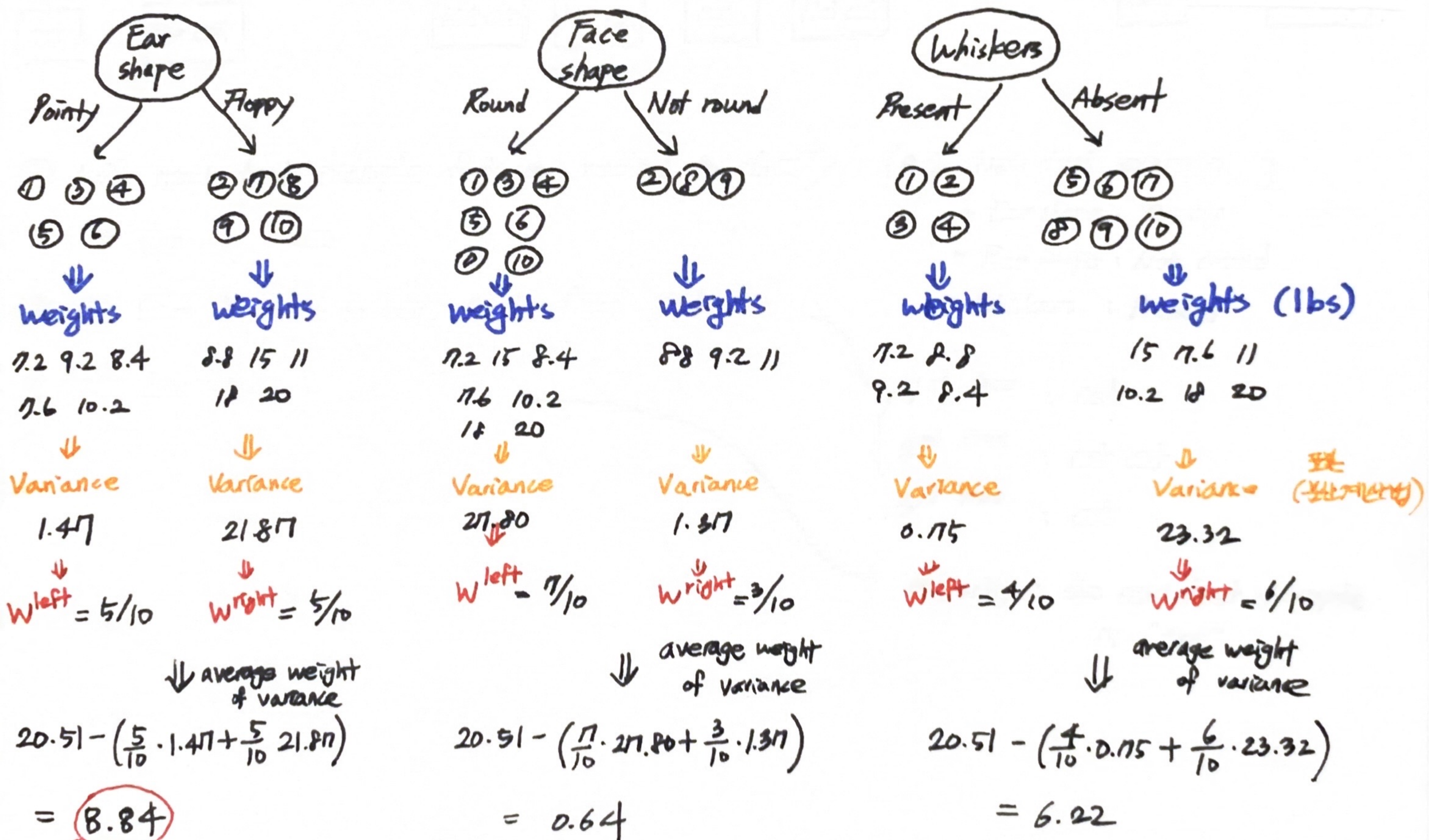
ex)

	Ear shape	Face shape	Whiskers	Weights (lbs)
①	Pointy	Round	Present	7.2
②	Floppy	Not round	Present	8.8
⋮	⋮	⋮	⋮	⋮
⑩	Floppy	Round	Absent	20

X Y (target)

\rightarrow Variance (분산)
= 20.51 (example)

* Choosing split \Rightarrow instead computing entropy, compute variance (분산)



reduction in variance

largest information gain

\rightarrow With 5 examples each in left and right subsets of ear shape tree, build a new decision tree recursively (same as classification tree) until meeting the criteria for not splitting any further