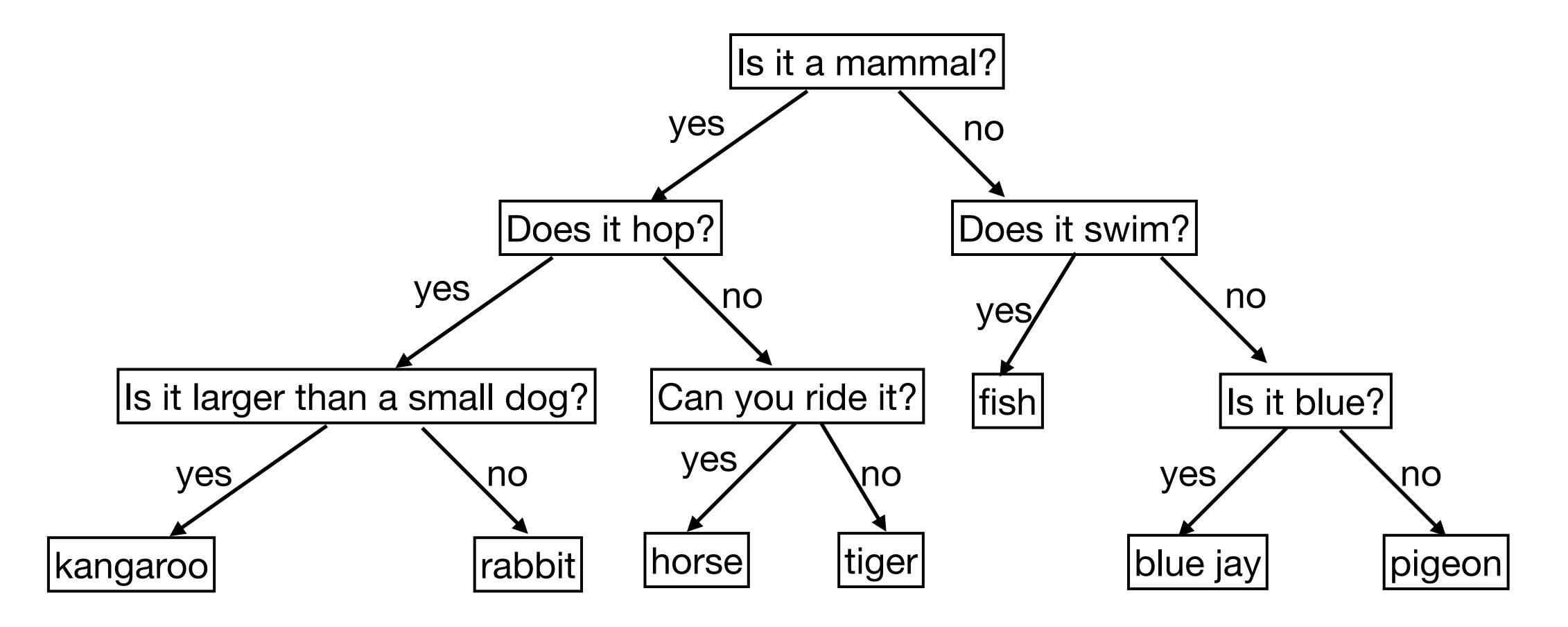
Lab 12: Introduction to Decision Trees

MAT 328, Spring 2021 Lehman College

What is a decision tree?



The maximum depth of the tree is the maximum number of levels from the top (root) to a bottom tip (leaf), not including the root.

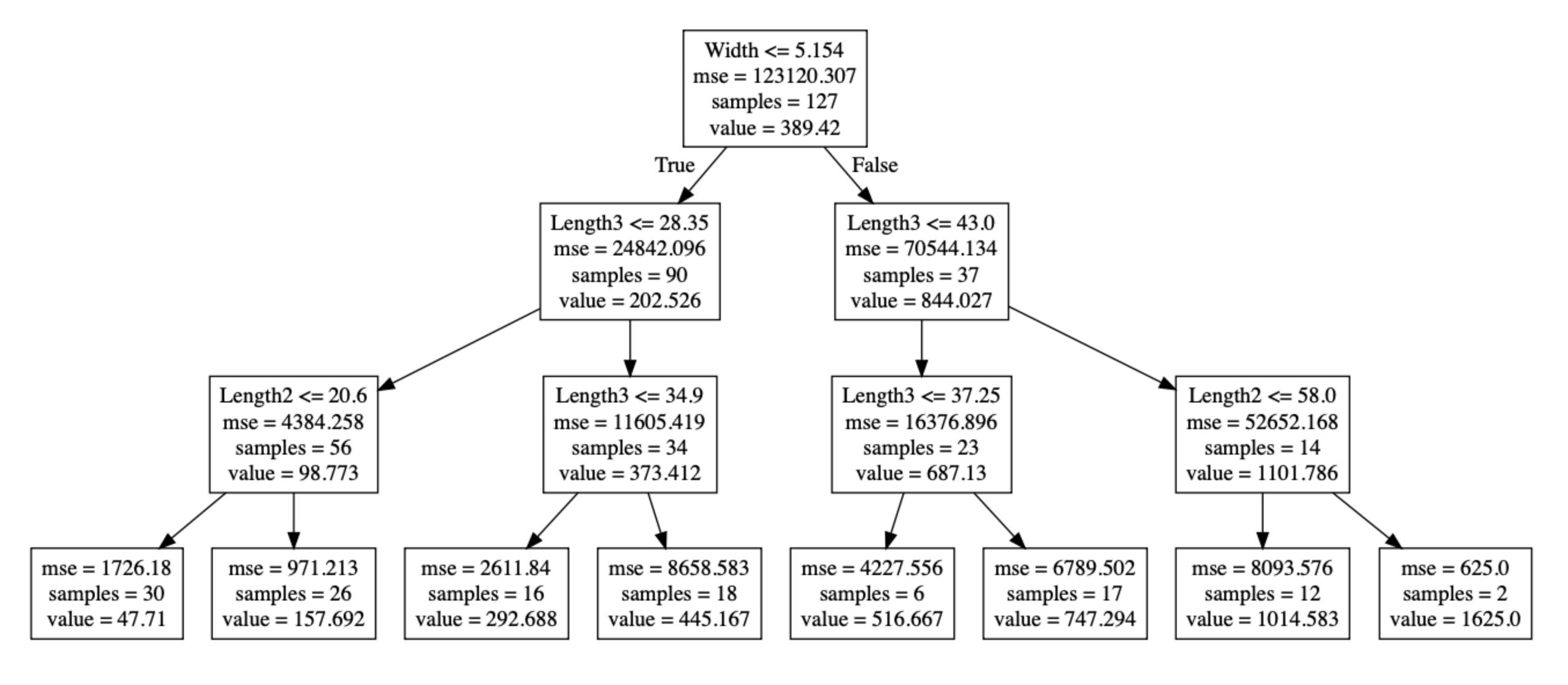
This tree has a maximum depth of 3.

Fish Market Data

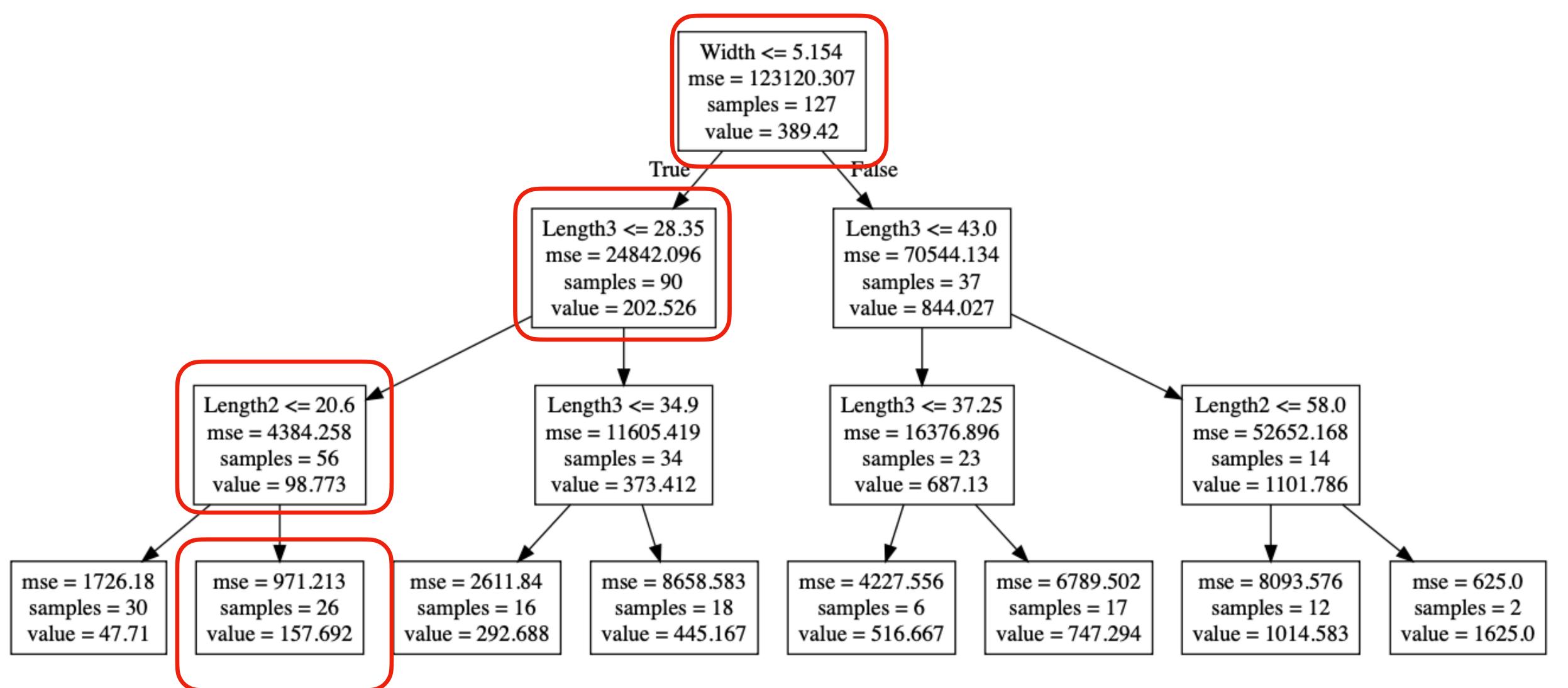
	Species	Weight	Length1	Length2	Length3	Height	Width
48	Roach	169.0	22.0	24.0	27.2	7.5344	3.8352
21	Bream	685.0	31.4	34.0	39.2	15.9936	5.3704
42	Røach	120.0	19.4	21.0	23.7	6.1146	3.2943
123	Perch	1100.0	39.0	42.0	44.6	12.8002	6.8684
1	Bream	290.0	24.0	26.3	31.2	12.4800	4.3056
		У					
					X		

Goal: Predict weight using Length1, Length2, Length3, Height, and Width

Fish Market Decision Tree



Fish Market Decision Tree



How much does a fish with a width of 4cm, a length 2 of 25cm and a length 3 of 27cm weigh?