



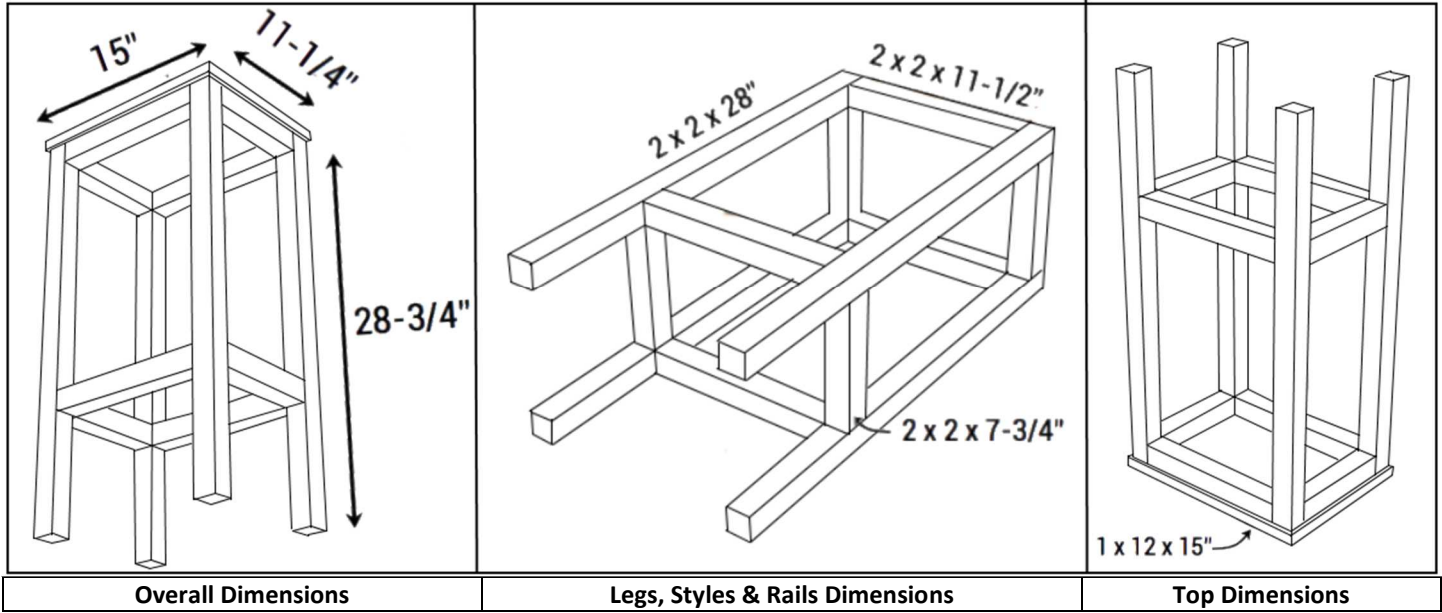
Name: _____ Grade: _____

MEASUREMENT & NUMERACY

BILL OF MATERIALS



When building any project cost is always a factor. The size of the project and the material used are usually the biggest influencers on the overall cost. Using the dimensions shown below, select the type of lumber you want (listed below) and complete the cost assessment sheet (known as a bill of materials).



Overall Dimensions Legs, Styles & Rails Dimensions Top Dimensions

Project dimensions are written in *finished* sizes but cost analysis sheets must account for "waste". For example: a 3/4" finished board would come in a 1" rough thickness so it must be milled down to the proper thickness. The material milled to reach said thickness would be considered waste and must be included in your cost. For this reason, when calculating the cost of a project dimensions are always rounded UP to the nearest full inch.

# of Pieces	Dimensions			# of Board Feet	Material Used	Cost /BF	Project Part	Total Cost
	Thickness	x Width	x Length	T x W x L/144 = BF				
	X	X		= /144 = BF			Top	\$
	X	X		= /144 = BF			Legs	\$
	X	X		= /144 = BF			Styles	\$
	X	X		= /144 = BF			Rails	\$
Total Project Board Feet				/board feet	Total Project Cost		\$	

Lumber Prices

Oak - \$3.50/bf	Maple - \$5.00/bf
Ash - \$4.75/bf	Walnut - \$6.25/bf

Remember to round two decimal places (where applicable) when doing your calculations. Each part cost should come within \$0.10 of the actual price; total cost cannot exceed \$0.80 of the actual total amount.