Carpentry Calculations:

**Concrete Thickness**

\*\*\*Dividing by 27 gives you the measurement in cubic yards\*\*\*

4” = 0.333

8” = 0.666

16” = 1.33

*Footing* = 0.666 x 1.33 x perimeter

 27

*Foundation* = 0.666 x height x perimeter

 27

*Anchor bolts* = Perimeter + 2 @corners

 4

*Slab* = Area x 0.333

 27

*Blocks* = perimeter x # of courses

 1.33

**Wood:**

*Sill* = perimeter

 Length of board

*Floor Joists* = (.75 x length)2

*Rim Joists* = perimeter

 Length of board

*Subfloor* = Area

 32 \*\*\*32 is the area of a 4’x8’ sheet of plywood/drywall

*Studs* = (0.75 x perimeter) + 2 {Corners, windows & doors}

*Plates* = Perimeter

 Length of board used

*Ceiling joists* = (Length x 0.75)2

*Rafters* = (length x 0.75)2

*Ridge* = Length

 Unit length of board used

*Sheathing* = Area

 32

*Gable ends* = Area

 32

*Roofing* = Area

 100 \*\* 1 Square of shingles which is 100 sq. ft, 1 pack coves 33sq. ft.

*Drywall* = Area

 32

*Siding* = Area

 100 \*\*\*Calculate the area of the windows and doors and subtract from siding area