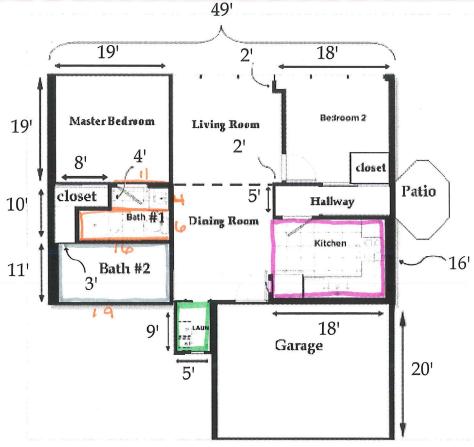
Name: _______

Advanced Area Applications Real World Example



1. The Vargas want to tile (both) bathrooms, the kitchen and laundry room. (a) Find the total square footage of the area needing to be tiled. (b) How many 6in x 6in tiles will they need for this project? (c) If Lowes offers a tile for \$0.38 if you buy more than 1,000 tiles or \$0.33 if you buy more than 2000 and Home Depot has tiles on sale for 30% off at an original cost of \$0.45, which deal is the better deal? (d) What would the sub total and total (with 6% sales tax) cost for this project comes out to be?

Bath#1: 11x4 + 6x16 = 140f+2

Bath #2: 19x11 = 209ft2

Kitchen: 16x18 = 288ft2

Laundry: 9x5 = 45f+2

b.) How many binx lein tites.

Win 4 tites per sq. foot

682 x 4

682 x 4 682 x 4 1 = 3,728 tiles, needed

d.) sub total: \$845.68 tax = 845.68 x.06 = \$50.74 C.) We buy more than 2000 tiles @ Lowes: @.33 Lowes = 2728 x.33 = 900.24 Home De Dot: 30% off

45 x . 3 = . 135 So . 45 - . 14

H. D: 2728 x -31 = \$45.68