Real World Applications for Perimeter & Area Problems (B)

1. A rectangular room has dimensions of 13ft by 15ft. Determine P & A of room! If carpet and installation cost per \$3 sq ft then cost to carpet room?

Hint: 1 ft x 1 ft = 1 sq ft P = L + W + L + W $A = L \times W$ P = 15 + 13 + 15 + 13 = 56ft $A = 15 \times 13 = 195$ sqft $A = 15 \times 13 = 105$ sqft $A = 15 \times$

2. A rectangular room has dimensions of 12ft by 14ft. Determine P & A of room! If baseboard & installation is \$4 per Linear Ft then cost to install baseboard!

Hint: 1 Linear Foot is 1 ft P = L+W+L+W $A = L \times W$ P = 14+12+14+12 = 52ft $A = 14 \times 12 = 168$ sqft Baseboard around Perimeter of Floor Installed 52ft $\times 4 = 208$

3. A room has dimensions 15 1/2ft by 12 1/4ft then P & A of room in Decimals? If hardwood for floor and installation cost per \$6 sq ft then cost for hardwood?

- 4. A room has dimensions 14.25ft by 12.5ft then find P & A with Mixed Numbers! If crown molding & installation is \$5 per Linear Ft then cost for crown molding! Hint: 1 Linear Foot is 1 ft P = L+W+L+W A = L x W
 P = 14 1/4+12 1/2+14 1/4+12 1/2 = 53.5ft A = 14 1/4 x 12 1/2 = 178 1/8sqft Crown Molding around Ceiling Perimeter Installed 53.5ft x \$5 = \$267.50
- 5. A rectangular room has dimensions of 14ft by 18ft. Determine P & A of room! If linoleum and installation cost per \$1.75 sq ft then cost for linoleum installed? Hint: 1 ft x 1 ft = 1 sq ft $P = L+W+L+W \quad A = L \times W$

P = 18+14+18+14 = 64ft A = $18 \times 14 = 252$ sqft Cost for Linoleum floor 252ft $\times 1.75 = 441.00

6. A rectangular room has dimensions of 12ft by 17ft. Determine P & A of room! If baseboard & installation is \$4 per Linear Ft then cost to install baseboard!

Hint: 1 Linear Foot is 1 ft P = L+W+L+W $A = L \times W$ P = 17+12+17+12 = 58ft $A = 17 \times 12 = 204$ sqft Baseboard around Perimeter of Floor Installed 58ft x \$4 = \$232

7. A room has dimensions 13 1/2ft by 16 1/4ft find P & A of room in Decimals! If hardwood for floor and installation cost per \$8 sq ft then cost for hardwood?

Hint: 12" = 1 ft P = L+W+L+W $A = L \times W$ P = 13.5+16.25+13.5+16.25 = 59.5ft $A=16.25 \times 13.5 = 219.375$ sqft Hardwood Floor installed 219.375 x \$8 =\$1755.00

8. A room has dimensions 12' 4" by 16' 6" then find P & A with Mixed Numbers! If crown molding & installation is \$5 per Linear Ft then cost for crown molding!

Hint: 1 Linear Foot is 1 ft

P = L+W+L+W

A = L x W

P = 12 1/3 +16 1/2 +12 1/3 +16 1/2 = 57 2/3ft A = 16 1/2 x 12 1/3 = 203 1/2sqft Crown Molding around Perimeter of Ceiling Installed 57 2/3ft x \$5 = \$288.35