

Painting Lesson Three: Buying Paint

Student Handouts

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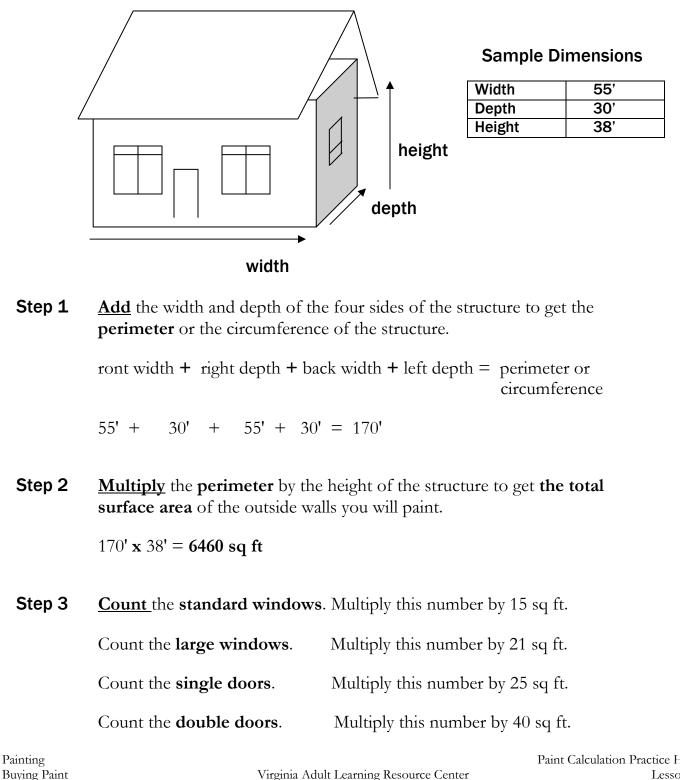
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Activity #1: Reading Paint Labels

Activity #2: Paint Calculation Practice

Practice A Instructions

To find out how much paint you need to paint the exterior of a structure, you need to know the dimensions of the structure. These are the width, the depth, and the height of the structure.



Virginia Adult Learning Resource Center

Paint Calculation Practice Handout Lesson Three

Non-painted area in sq ft

standard windows	4	Х	15 sq ft =		
large windows	4	Х	21 sq ft. =		
single doors	2	х	25 sq ft =		
double doors	1	Х	40 sq ft. =	+	
Non-painted area in sq ft					

- **Step 4** Add the number of square feet for all of the windows and doors.
- **Step 5** <u>Subtract</u> the total number of square feet of non-painted areas from the total surface area that you will paint.

Total Surface Area	6460 sq ft
Non-painted Area	sq ft
Paint Surface Area	_

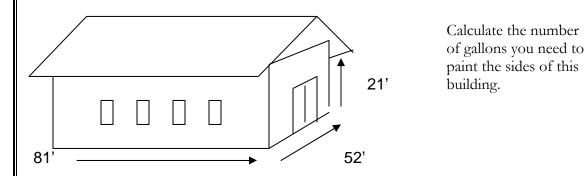
Step 6 <u>**Divide**</u> the paint surface area <u>by</u> 400 sq ft. (One gallon of paint covers bout 400 sq ft.)

400 √

) Number of gallons of paint needed: _____gal

Practice B Instructions

Do this practice together with your group.



Step 1 <u>Add</u> the width and depth of the four sides of the structure to get the **perimeter** or the circumference of the structure.

front width + right depth + back width + left depth = perimeter or circumference

 $\underline{ft} + \underline{ft} + \underline{ft} + \underline{ft} + \underline{ft} = \underline{ft}$

Step 2 <u>Multiply</u> the perimeter by the height of the structure to get the total surface area of the outside walls you will paint.

 $____ft x ___ft = ____sq ft$

Step 3 <u>**Count</u> the standard windows**. Multiply this number by 15 sq ft.</u>

Count the large windows.	Multiply this number by 21 sq ft.
Count the single doors .	Multiply this number by 25 sq ft.
Count the double doors .	Multiply this number by 40 sq ft.

Unpainted area in sq ft

standard windows (left side)	8 x 15 sq ft =	
large windows (right side)	2 x 21 sq ft. =	
single doors (right side)	1 x 25 sq ft =	
double doors (front & back)	2 x 40 sq ft. = +	
Unpainted area in sq ft		

- **Step 4** <u>Add</u> the number of square feet for all of the windows and doors.
- **Step 5** <u>Subtract</u> the total number of square feet of unpainted areas <u>from</u> the total surface area that you will paint.

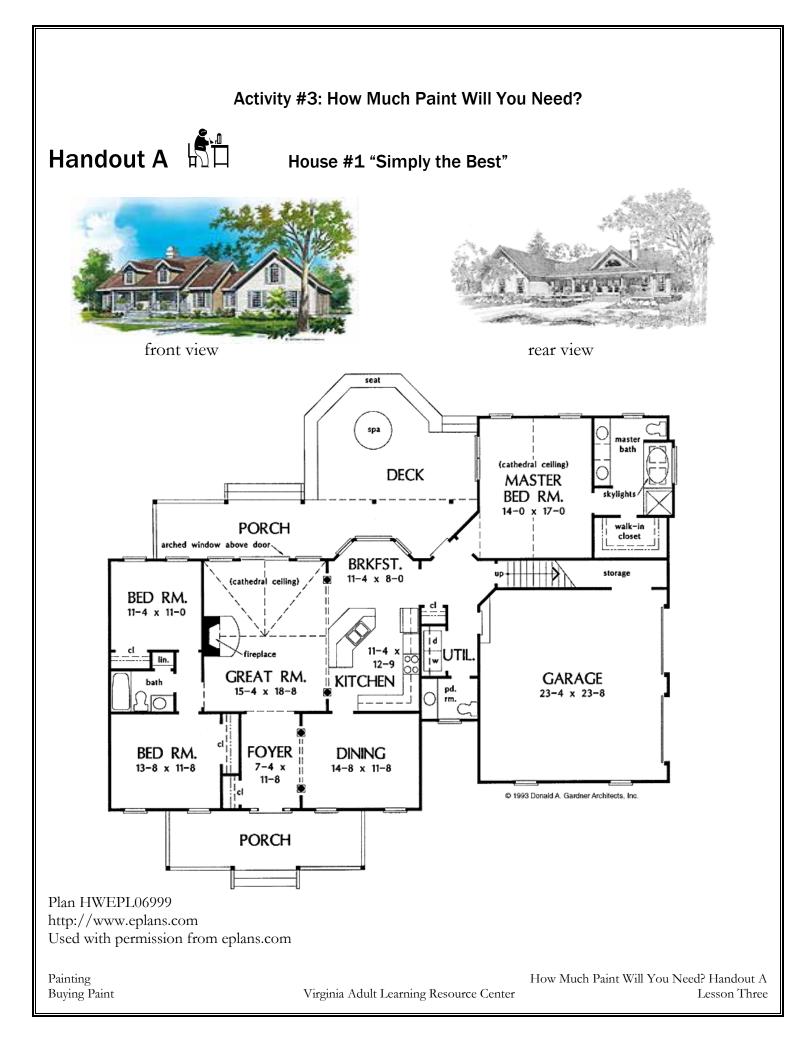
Total Surface Area	sq ft
Unpainted Area	 _ sq ft
Paint Surface Area	_

Step 6 <u>**Divide**</u> the paint surface area <u>by</u> 400 sq ft. (One gallon of paint covers about 400 sq ft.)

400 √



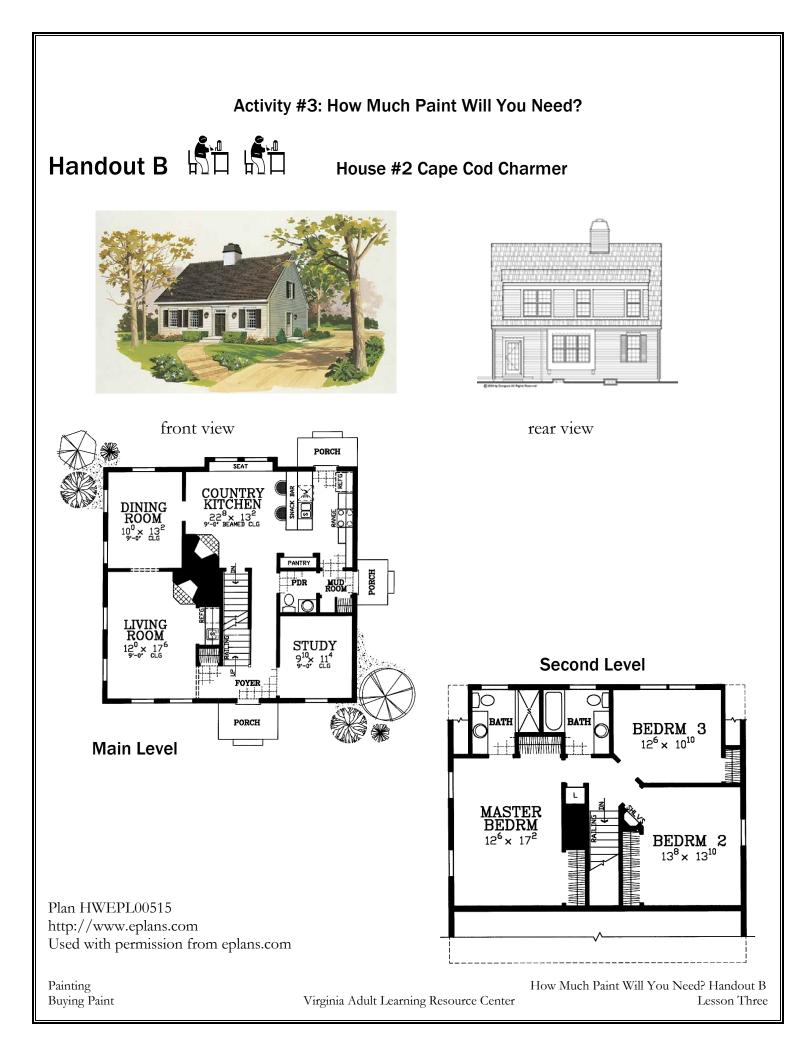
Number of gallons of paint needed: _____gal



<u>Instructions</u>: Estimate the number of gallons of paint you will need to paint the walls in these rooms. The ceiling height in these rooms is 9.0 ft.

- the three bedrooms
- the dining room
- the foyer

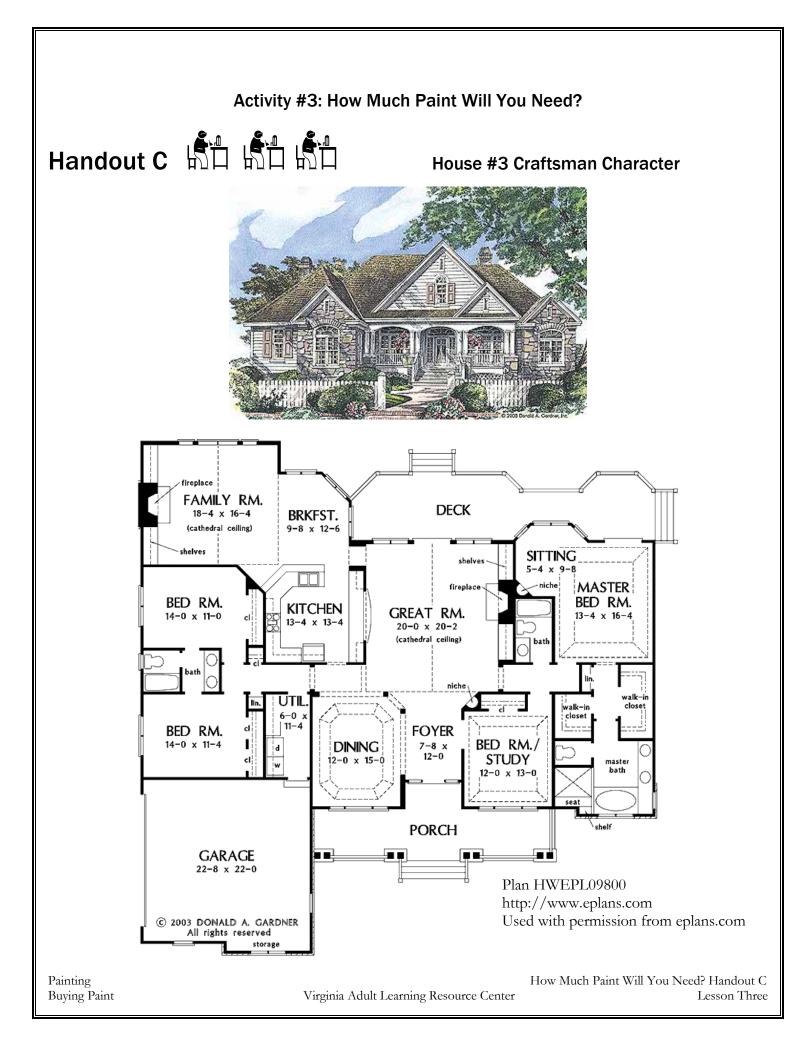
Room	Total room area in sq ft	Unpainted areas in sq ft	Room area to be painted in sq ft	Number of gallons needed
Bedroom #1				
Bedroom #2				
Bedroom #3				
Foyer				
Dining room				
			Total gallons	



<u>Instructions</u>: Estimate the number of gallons of paint you will need to paint these rooms. The ceiling height in each room is 9.0 ft.

- the living room
- the three bedroom
- the study
- the dining room

Room	Total room area in sq ft	Unpainted areas in sq ft	Room area to be painted in sq ft	Number of gallons needed
Living room				needed
Bedroom #1				
Bedroom #2				
Bedroom #3				
Study				
Dining room				
			Total gallons	



<u>Instructions</u>: Estimate the number of gallons of paint you will need to paint the walls in these rooms. The ceiling height in each room is 9.0 ft.

- the living room (great room)
- two bedroom
- the bedroom/study
- the dining room

Room	Total room area in sq ft	Unpainted areas in sq ft	Room area to be painted	Number of gallons
			in sq ft	needed
Living room				
Bedroom #1				
Bedroom #2				
Master				
Bedroom				
Bedroom/Study				
Dining room				
			Total gallons	