

**Applied Math
Redecorating Project**

Name _____

Date _____

Question: How much will it cost to redecorate the walls of this classroom?

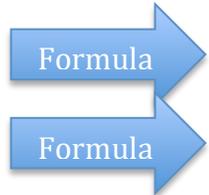
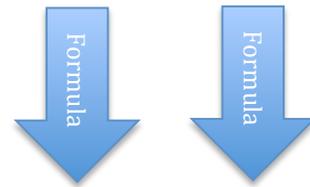
Assignment: You will calculate the area of the walls of this classroom. Then you will research a variety of painting and wallpaper options (www.homedepot.com) and create a spreadsheet that calculates the total cost of each option. You will need to provide links of each product. **All the paint should be interior flat/matte.** Assume that we will be redecorating behind anything affixed to the walls, except the cabinets. Also, assume the height of the room is 10 ft.

You will need to make a few tables. One will tell the dimensions of the walls and how you calculated it. The second and third tables will calculate the cost of paint and supplies. The fourth will give cost for projects with specific combinations. You will have a minimum of four options.

Here are some sample tables. All titles are for example only. You should pick your very own flavors. Be specific.

Dimensions Table

	North Wall (Projector)	East Wall (Windows)	South Wall (Back)	West Wall (Accent)
Height				
Width				
Area				
Total Area				

Paint Table

Paint	Sold by the Unit	Cost per Unit	Unit Covers (sq ft)	Units Needed	Cost
Primer					
Base 1: Inexpensive	gallon	\$83.89	40	8	\$\$\$\$
Base 2: Expensive					
Inexpensive Wallpaper					
Expensive Wallpaper					

Applied Math Repainting Project

Supplies Table: This table is a list of supplies you will need to complete the chosen project.

Item	Cost	Item	Cost
Rollers		Exacto Knife	
...		...	
Painting Supplies Total:		Wallpaper Supplies Total	



Project Table: You need to calculate the four (minimum) options here.

Combination	Primer Cost	Supplies Cost	Base Cost	Total Project Cost
Inexpensive Paint:	=A3	=D5		
...				

Reflection Questions on Google Doc:

1. How much did you expect the repainting project to cost? How did the actual costs compare to your expectation?
2. How much experience do you have painting or wallpapering rooms? Explain.
3. How could you improve your process?
4. How much paint/wallpaper would you have left over on a particular project?
5. Other observations.

Rubric

A: Exceptional	Proficient Plus: Actual samples of paint color and wallpaper inserted into the spreadsheet (or shading matches). Notes include description of how you calculated the area of wall space. More options for décor; must be different material and costs. Reflections are highly specific and detailed.
B: Proficient	Excellent use of shading. Unused cells are deleted. Data is accurate. Organization is clean. Spreadsheet auto calculates. Four options with total costs clearly marked. Reflections are well written.
C: Basic	Some missing data. Not full auto calculation.
D: Developing	Significant portions are missing from spreadsheet.
F: Inadequate	Incomplete by missing most information.