

**Applied Math
Redecorating Project**

Name _____

Date _____

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

Skills/Formulas:

- SUM
- ROUNDUP
- format \$
- use row/column lock \$
- Using multiple tables

Assignment: Here comes the TBC (Tahanto Beautification Committee) once again. Now that we have reseeded the grass and put in new flooring in our classroom, now let's improve the walls. 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, i.e. the whiteboards & bulletin boards. You will submit a sheet with multiple tabs and a reflection document.

Dimensions to use

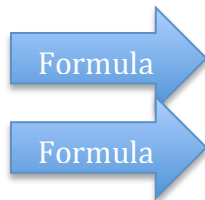
If shooting for Proficient, use 30' x 39'. If aiming for Exceptional, include the doorway (5' x 8') and that the back comes in about 2.5' on each side.

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

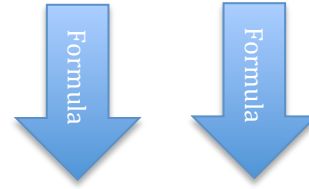
(Advanced: include doorway and back "bumps")



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

Applied Math

Repainting Project



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					

(Exceptional: add more options of different material)

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

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

Applied Math Repainting Project

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 did the costs of this project compare to the flooring project? Be specific. For example, compare the least expensive options, or the most expensive options, etc.
3. How much experience do you have painting or wallpapering rooms? Explain.
4. How much paint/wallpaper would you have left over on a particular project?
5. Other observations.

Rubric

A: Advanced	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.