

**Applied Math
Repainting Project**

Name _____

Date _____

Question: How much will it cost to repaint this classroom?

Assignment:

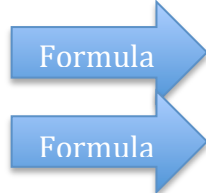
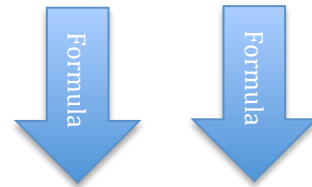
You will calculate the area of the walls of this classroom. Then you will research a variety of painting options (www.homedepot.com) and create a spreadsheet that calculates the total cost of each option. You will need to provide links of each product. **All the paint should be interior flat/matte.** Assume that we will be painting behind anything affixed to the walls. 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. Please choose at least two combinations for pricing.

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

Dimensions Table

	North Wall (Projector)	East Wall (Accent)	South Wall (Back)	West Wall (Windows)
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: Yellow	gallon	\$83.89	40	8	\$\$\$\$
Base 2: Grey					
Accent 1: Pink					
Accent 2: Kelly green					
Accent 3: Purple					

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Supplies Table



Item	Cost
Rollers	
Brushes	
Tape	
Trays	
Other	
TOTAL	

Project Table

Combination	Primer Cost	Supplies Cost	Base Cost	Accent Cost	Total Project Cost
Option 1: Yellow Base with Green accent					
Option 2:					

Rubric

A: Exceptional	Proficient Plus: Actual samples of paint color inserted into the spreadsheet (or shading matches). Notes include description of how you calculated the area of wall space. More combinations or combinations with 1 base and 2 accents.
B: Proficient	Excellent use of shading. Unused cells are deleted. Data is accurate. Organization is clean. Spreadsheet auto calculates. Links work well. Two combinations of 1 base and 1 accent.
C: Basic	Some missing data. Not full auto calculation.
D: Developing	Significant portions are missing from spreadsheet.
F: Inadequate	Incomplete by missing most information.