Warm up

20	+10	÷3	-5	x6	double	-5	x2

Can you work through our biggest problem yet?

Today's Objective

- Today our objective is to apply multiple mathematical procedures together in order to create a solution for a multi-stage multi-concept problem. You know you are successful if you can demonstrated persistence with your solving strategy and clearly represent your thinking.

Scenario

- You feel so lucky! Your parents have allowed you to paint your room any colour you want! This is an exciting time. Do you want blue, pink, green, purple or black? The only catch is they need you to calculate a few logistical items first.

Finding the surface area

- Your room is a 3D solid. Your walls are all rectangles. The height of your walls is 8 feet. Two of your walls have a length of 13 feet. Two of your walls have a length of 12 feet. Draw and label the length and height of each wall. Calculate the surface area for each wall. Find the total surface area for all your walls.

Hint:
-area=length x height
-add all your surface areas together

Finding how much paint you need

- Your parents say that one can of paint will cover 66 and 2/3 square feet. How many cans of paint are needed to cover the whole room?

Hint:
2/3 +2/3 =4/3 that means you have 1(3/3) and 1/3 left over right?

How long will it take you to paint

- Your parents then told you that you need to calculate the time it will take to paint your room. They said from their experience, you can paint 1/6 of an 8x12 wall in 10 minutes. You can paint 1/6 of an 8x13 wall in 12 minutes. You need to paint all 4 walls!! How long does it take to do one coat?

Price of paint

- One can of paint is $25.45. How much does all your paint cost?

Summary

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