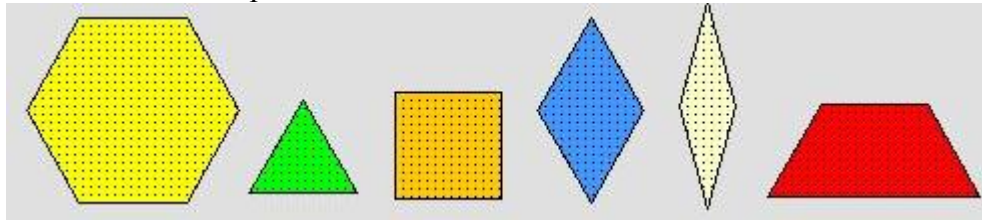


Throughout this course, you will be doing activities based on the following scenario:

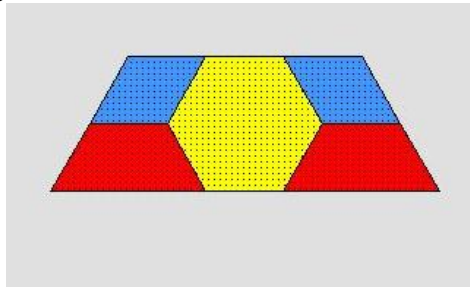
You are an artist who makes designs from the six basic tiles shown below. Each design has a basic “unit” that is often repeated to decorate walls or floors.



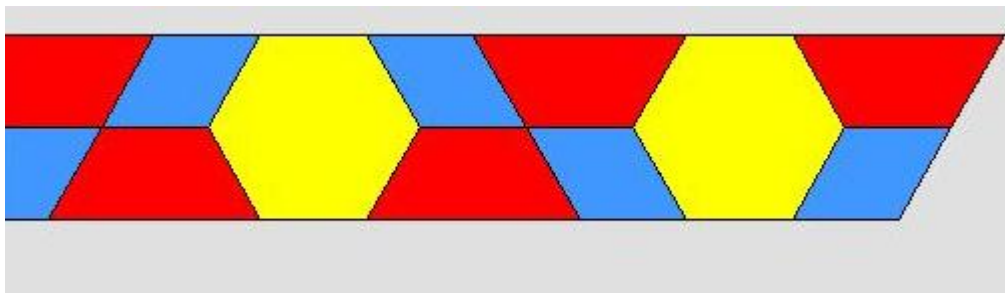
Hexagon Triangle Square *Rhombus_{blue} *Rhombus_{white} Trapezoid

*We will use the colors in *subscript* to distinguish between the two rhombi (plural of rhombus).

For example, the design shown below is the unit for a border called **Sunrise Border**.



When the design is repeated, it creates the border shown below. Notice that the basic unit can be rotated or flipped.



- Each of the tiles costs a different amount. Use the prices listed below to find the cost of a single unit of Sunrise Border. You need to keep track of how you calculate the cost so write your work below.
 Rhombus_{blue} = \$.25 ea Trapezoid = \$.36 ea Hexagon = \$.48 ea

- Write the calculation for #1 as a single expression.
- Suppose you were making a border with 24 units. Write the calculation for the cost of the border using the prices of the tiles as a single expression.
- What is different about the order in which the values are written in #3 and the order in which you perform the calculations? Write your answer on the back of this page.