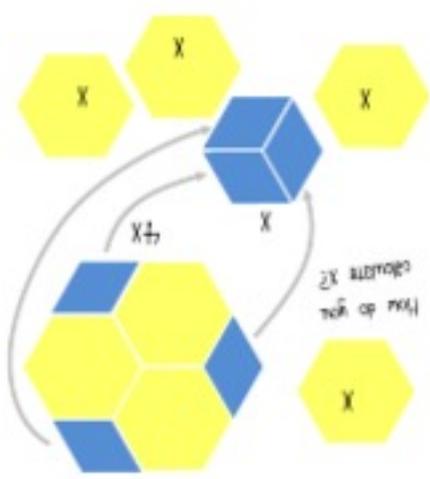


If the area of the small hexagon is X, you can determine the area of the large hexagon by rearranging the shapes.



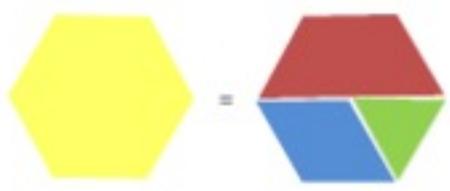
### Comparing Area

Rearrange some shapes and see if your buddy can copy your creation, here is one to get you started.



### Practicing Imitation

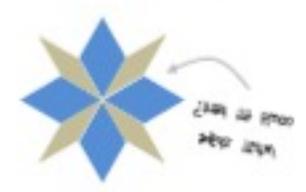
Use shapes to visualize adding and subtracting, yellow represents a whole, red 1/2, blue 1/3, and green 1/6



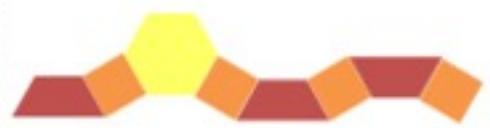
$$1/6 + 1/3 + 1/2 = 1$$

### Visualizing Fractions

Create tessellating patterns for fun

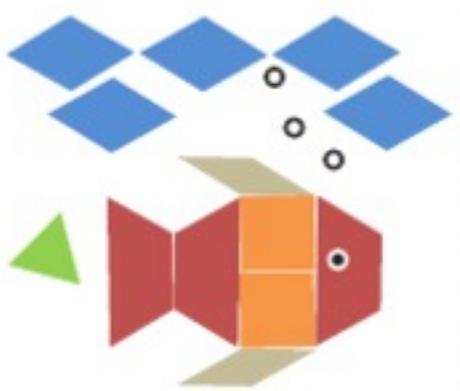


Create a simple tessellating pattern, switch 1 out and see if your buddy can find the 1 that does not belong.



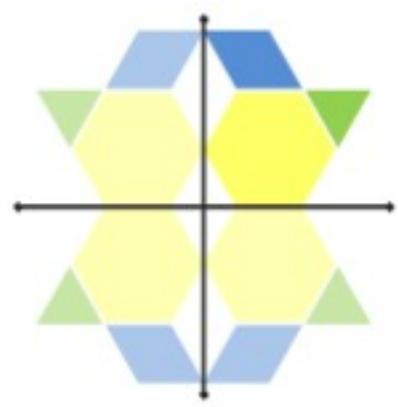
### Playing with Patterns

### Representational Art



Try combining shapes to create realistic looking objects, animals, and environments

### Experimenting with Symmetry



Make a design along a line and mirror it, then try mirroring it again along a second line.

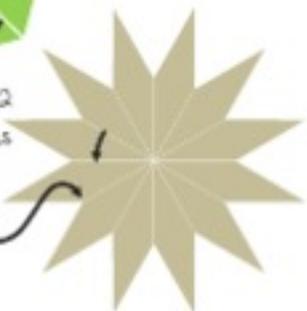
### Deducing Angles



Each interior angle of the triangle is 360 divided by 6

Divide 360 by 12 for the rhombus

How could you calculate the obtuse angle?



Determine angles by what you know (circle is 360° around, sum of interior angles by shape: 3sided 180°, 4sided 360°, 6sided 720°)

### Pattern Blocks Idea Book

