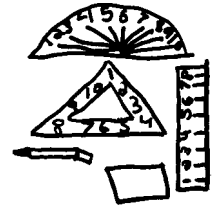




# G E O M E T R Y



Plane Geometry

G-19 (2345)

## Congruent Creations

### What you need:

- ✓ Color tiles
- ✓ Rulers
- ✓ Grid Paper
- ✓ Crayons/Marker

### What you will learn:

In this activity you will create a design using congruent and non-congruent shapes. You will be able to explain how shapes are congruent.

### What you need to do:

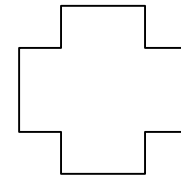
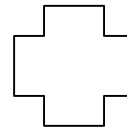
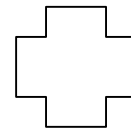
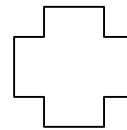
**Step 1:** Experiment with color tiles to create a design that has five squares. Three of the squares must be congruent and two must be non-congruent.

Congruent

Non-congruent



**Step 2:** In the spaces remaining, create four rectangles. Three of the rectangles must be congruent and one must be non-congruent.



**Step 3:** When you are satisfied with your design, reproduce it on the grid paper provided.

**Step 4:** Colour the congruent squares red, the congruent rectangles yellow, and non-congruent figures blue regardless of the color of tiles you chose as you were experimenting.

**Step 5:** If you had to explain to someone else how they could find congruent shapes, what would you tell them to look for? Write out your explanation.



# Congruent Creations

## Teacher Tips & Solutions



### Objectives

G-19 Make congruent 2-D shapes (2345)

- Pattern blocks and power polygons are ideal manipulatives to use with this activity if extending to other shapes.
- This activity can also be repeated with solid shapes. This can be achieved by allowing the students to build up with their tiles.
- If using pattern blocks, solid 3-D shapes can be constructed by stacking up or lining up side by side.