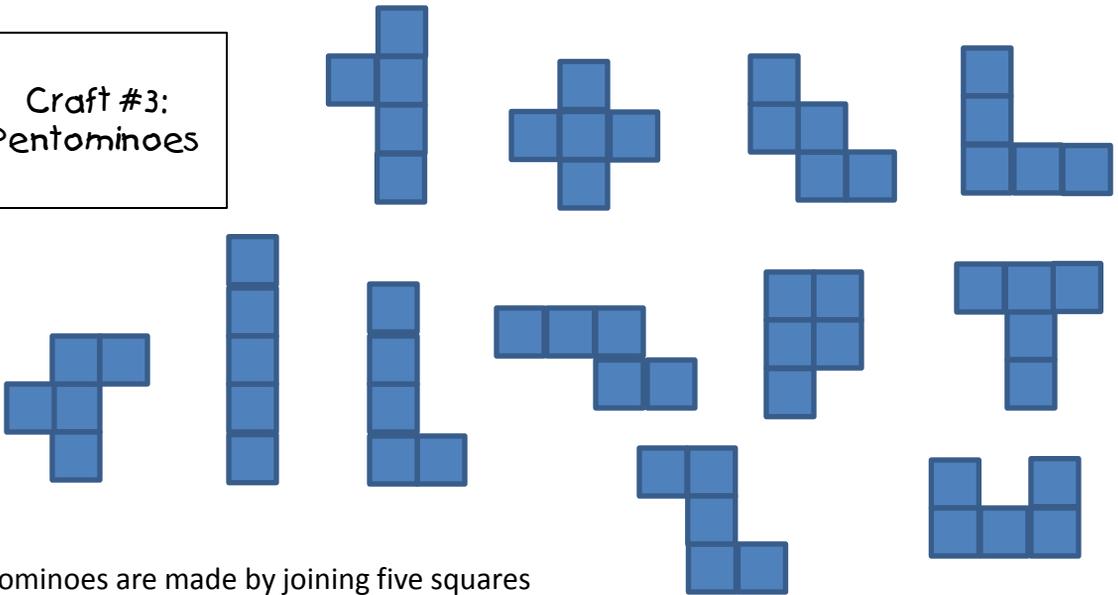






Craft #3:  
Pentominoes



Pentominoes are made by joining five squares so that each has at least one common side with at least one other square. There are 12 possible combinations if you don't count inversions and rotations.

2-dimensional (2D) squares:

3-dimensional (3D) squares:

Activities and Concepts:

Vocabulary
adjacent
vertical
rotation
inversion
2-dimensional
3-dimensional

## Craft #4 Paper Boxes

These can be made from any size square. Use any paper, such as old greeting cards or paper decorated with Fingerpaste. This activity provides a rich opportunity to introduce and practice math vocabulary.

Directions for Folding:

1. Take a square of paper
2. Lightly draw diagonal lines from opposite corners on the “wrong” side.
3. Fold each corner to the center where the lines intersect.
4. Position the paper so the base of the square is horizontal.
5. Fold the base up to the center point keeping it parallel to the top side.
6. Fold the top side down to the center keeping the top and bottom edges parallel forming a rectangle. Crease well and open to a square.
7. Rotate the square 90 degrees. Repeat the folding of steps 5 & 6 with the new base and top.
8. Open it back to the square in Step 3.
9. Find the two creases that are perpendicular to the base. Snip along the perpendicular crease to the first horizontal crease.
10. Rotate the square 180 degrees and repeat step 9.
11. Unfold the two snipped points to see a rectangle and an isosceles triangle.
12. Fold up the sides of the square to form a box. The unfolded points from Step 11 fold into the middle of the box. Use glue or tape if needed.

### Adaptations, Modifications and Additional Notes:

Lids may be made by making the square  $\frac{1}{4}$ " or 2 or 3 cm larger.

Vocabulary

Perpendicular

Horizontal

Base

Isosceles

Rectangle

Intersect

Diagonal

Parallel



# Get Crafty with Math

Adaptations, Modifications and Additional Notes: