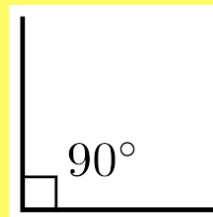# Ventura Park — Math Corner
The Right Angle to Success

90°

The next few Math Corners will focus on individual free math apps that can be downloaded to any Apple or Android device. They can also be used on a computer using an internet browser.

Each app can be found on the Mathies Apps website. Mathies apps are developed by the Ontario Ministry of Education to support with mathematical learning at home and at school.

Today's Mathies App is Colour Tiles. This versatile manipulative can be used to represent, compare numbers, and to represent fraction sets. By using two colours, older students can also explore integers. Patterns and geometric designs can also be created. Have fun exploring this very rich tool! A PDF tip sheet about each button is also included at the end of today's Math Corner.
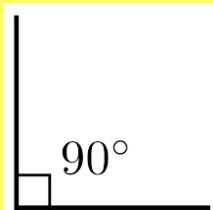
To **download** the resource please click here:

Mathies Apps

To use the resource in your **web browser** click here:

Mathies Colour Tiles

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Screen shot of resource:

Mathies Colour Tiles

Use the colour tiles to work with addition, subtraction, multiplication and division

Use the colour tiles to work with fractions and arrays.

×1

3

I have 3 green beads and 6 purple beads. I have nine beads all together.

3   3

1/4 of my square is red.

1/2 of my square is blue.

Here I made a growing pattern. I know my pattern grows by +1 each time because at first I have 1 black bead and 1 yellow bead. Next I have 2 black beads and 2 yellow beads. After I then have 3 black beads and 3 yellow beads.

I wonder what my pattern will look like on the 6th term?

-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6

+3 + (−6) = −3

Creating a number line and using the beads to work with integers.

#

Ab

Use the colour tiles to create patterns.

Use the colour tiles and annotation feature to work with integers.

Colour Tiles Learning Tool
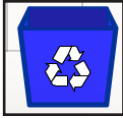## by mathies.ca

What is it?

Colour Tiles come in three different shapes – square, rounded square and round. The rounded square has an option to customize its roundedness. Colours of the tiles come in three options – six colours, multiple colours and colours that are closely aligned to beads.
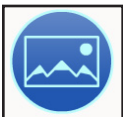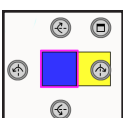
How do you use the tool?

The colour tile panel shows six tiles. The type and colour of the six tiles is dependent on the entry to the learning tool.

- Original Six – square tiles with the original six colours
- Multi – rounded square with six colours from the multiple colour choices
- Beading – circle with six of the bead colours

Use the multiplier to quickly create 1, 2, 5, 10 or 100 copies of a colour tile. Drag any of the tiles from the panel to the workspace.

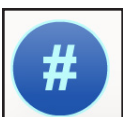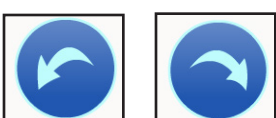| Learning Tool Icon	Description
Annotation Tool	Press the pencil button to activate the annotation tool. Select the arrow in the annotation tool or deselect the pencil when you want to work with the learning tool. This is a handy tool to document thinking as one is working with this learning tool. The annotation toolbox includes a pencil with an eraser, shapes, and text.
Copy	Copy the selected object(s). To select, click on an object or draw a marquee around a collection of objects.
Decrease/Increase Size	Decrease or increase the size of the tiles.
Delete	If an item in the workspace is selected, then clicking on the recycle bin removes all selected items. If nothing is selected, then the entire workspace is cleared. Alternatively, drag items to the recycle bin to remove them.
Extended Selection by Colour	Select one or more tiles. When the extended selection by colour icon is pressed, all of the other tiles in the workspace that is the same colour as these tiles are selected.

Learning Tool Icon	Description
Information	Additional Information about this learning tool, including support wiki and feedback form.
Insert Picture	Import pictures and select the picture if multiple copies are desired. A picture of a question or problem can be embedded within the learning tool.
Number of Copies	Set the number of copies of a tile to 1, 2, 5, 10 or 100 to be dragged from the panel.
Panel	Default setting of the learning tool is for the object panel to be open. To make more room in the workspace, the panel can be closed.
Reset	Press the Reset button to return the tool to its original state with default settings.
Rotate/ Reflect	Rotate or reflect the selected object(s). To select, click on an object or draw a marquee around a collection of objects.
Settings	Customize the shape, degree of roundedness, tile outline, grid with and without grid labels, background colour and restore defaults while keeping objects on the workspace.
Tile Changer	Change the shape and/or colour of the selected tile(s). Click on a tile or draw a marquee around the tiles to select them.
Tile Count	Check to see how many of each type of tile colour are in the work space.
Undo/Redo	Step backward or forward through your actions with the tool. It is not only useful for correcting mistakes, but also for revisiting the steps taken with the tool to share thinking.