

Date: _____

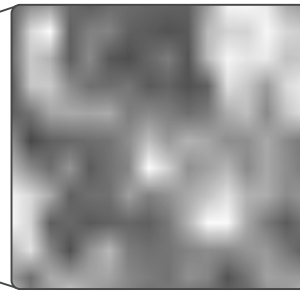
Name: _____

Pixel Art

This activity was created by Brandi.

Ever wondered how digital images work? How can a camera take what we see with our eyes and turn it into a picture on our phones? The answer is... pixels (and a whole lot of code)!

Take a look at this picture:



This image can be so high quality because of the many many pixels (2,457,600 to be exact) that it is made up of. If we zoom in extremely close on a section of the picture, we can see individual pixels which each contain one solid colour.

Draw an image of your choice in this rectangle. Make sure it's in color and fills most of the space. Ignore the square in the middle for now - we'll worry about that after.



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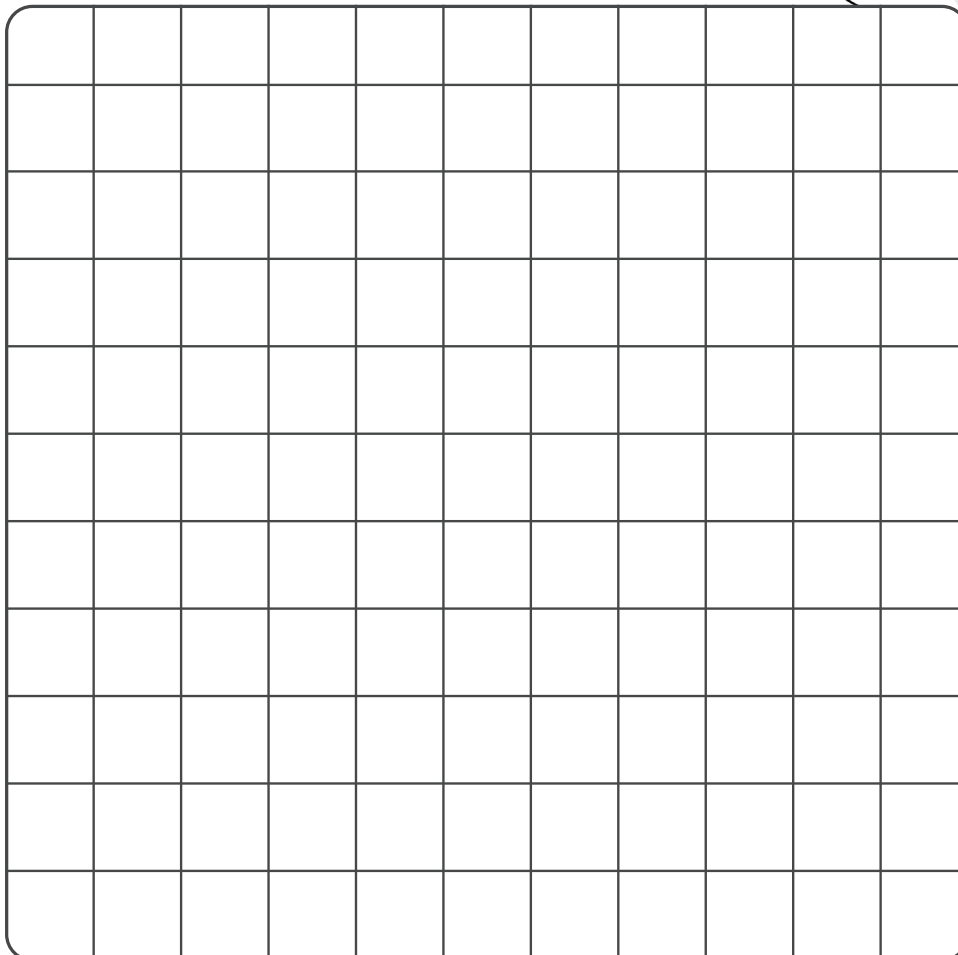
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Now it's time to remember that square! Attempt to redraw just that segment of your drawing that ended up inside the square. This time, imagine we are zooming in enough to see individual pixels within the square. Remember: each pixel can only contain one colour.

square from your drawing



magnified (pixellated) square



Only 3 colours are used to code every colour of pixel! Colours in a digital image are combinations of red, blue, and green. To create a colour, you adjust the strength of red, blue, and green on a scale of 0-255! For example, purple would be: red: 255, blue: 255, green: 0.

