

Printout

Tuesday, September 15, 2020 2:53 PM

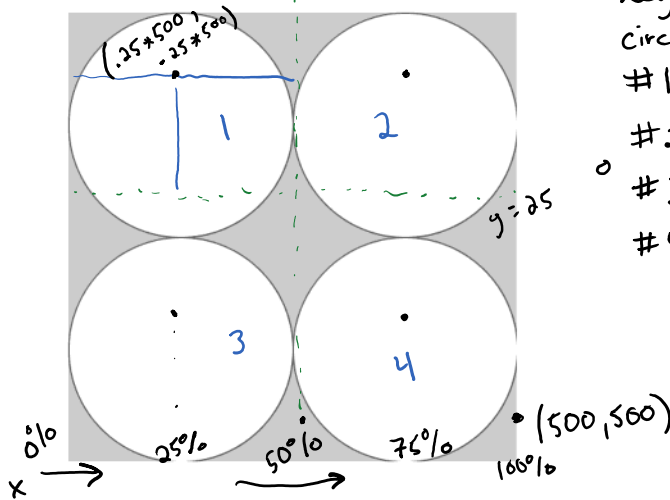
Practice

Week of September 15, 2020

Due by midnight on your class day.

Answer the following questions.

1. Consider a canvas with size 500 x 500 pixels. Compute the centers, widths, and heights of the four circles in this drawing.



width = 250
 height = 250
 circle centers:
 #1 : $(0.25 * \text{width}, 0.25 * \text{height}) = (125, 125)$
 #2 : $(0.75 * \text{width}, 0.25 * \text{height}) = (375, 125)$
 #3 : $(0.25 * \text{width}, 0.75 * \text{height}) = (125, 375)$
 #4 : $(0.75 * \text{width}, 0.75 * \text{height}) = (375, 375)$

2. Write Processing code to draw the above image. Put all your code in setup().

```
void setup() {
  size(500, 500); // need this
  ellipse(125, 125, 250, 250);
  ellipse(375, 125, 250, 250);
  ellipse(125, 375, 250, 250);
  ellipse(375, 375, 250, 250);
}

void draw() { } // optional for quiz but
                // ok to have?
```

3. The coordinate system below extends from (0,0) to (500,500). Thin lines correspond to increments of 25. Thick lines to increments of 100. On the image, label the following:

- X-Axis
- Y-Axis
- The origin
- The point (500,500)
- The point (100, 150)
- The point (400, 150)
- The point (150, 375)
- The point (250, 50)
- The point (350, 375)

