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**Quiz # 4** 

Name
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Multiple Choice: /\* 3 points each \*/

1. Which of these Processing expressions generates a random value from 17 up to but not including 24?

- A) random( 17, 23 )
- B) random( 17, 24)
- C) random(0, 6) + 17

- D) random(0, 7) + 17
- E) Both expression A and expression C do this
- H) Both expression B and expression D do this

## Short Answer:

1. The box below represents the output window for a Processing program. Draw a rectangle inside the box that shows the location, the width and the height of the image displayed by the following Processing code: /\* 7 points \*/

```
size( 500, 120 );
image( img1, 400, 0, 100, 60 );
```

2. Describe in English what happens when the following program is exectued, and the timing of what happens: /\* 7 points \*/

```
void draw() {
    background(0);
    int currentTime = millis();

if ( currentTime > 3000 ) {
       background( 0 );
       ellipse( 100, 100, 50, 50 );
    }

else if ( currentTime > 1500 ) {
       background( 0 );
       rect( 0, 0, 50, 50 );
    }
}
```

## Short Answer (continued):

3. Fill in the blanks in this Processing code so that it flips a coin 500 times and counts how many heads and how many tails were flipped. /\* 7 points \*/