Multiple Choice: /\* 2 points each \*/

1. In this Processing statement, what does the parameter 130 refer to?

image(img1, 130, 0, 240, 120);

A) The image itself

D) The height of the image

B) The width of the image

- E) The y-coordinate of the image
- C) The x-coordinate of the image
- F) None of these
- 2. What code would cause Processing to run one frame every 2 seconds?
  - A) frameRate(0.5);
  - B) frameRate(120);
  - C) frameRate(2);

- D) frameRate(30);
- E) None of these

## 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, 250, 100, 250, 20 );
```

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

```
void draw() {
    background(0);
    int currentTime = millis();
    stroke(255);

    if ( currentTime < 2000 ) {
        background( 0 );
        line( 100, 100, 0, 0 );
    }
    else if ( currentTime < 4000 ) {
        background( 0 );
        line( 100, 100, width, height );
    }
    else if ( currentTime < 6000 ) {
        background( 0 );
        else if ( currentTime < 6000 );
        else
```

## Short Answer (continued):

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 \*/

```
int numHeads = 0;
int numTails = 0;
for ( int flipNum = __1 ___; flipNum<=500 ; flipNum++) {
    float percentage = random( 0, 100 );

    if ( percentage < __50 ___) {
        numHeads = numHeads + 1;
    }
    else {
        numTails = numTails + 1;
    }
}
print( "heads = " );
println( numHeads );
print( "tails = " );
println( numTails);</pre>
```