Day 7--Concept Questions

Name: _____   CM: _____

1. Draw a line from the math formula to its correct code:

$$y = \sum_{m=1}^{5} 1$$

```
y = 1;
for m = 1:5
    y = y * m;
end
```

$$y = \sum_{m=1}^{5} m$$

```
y = 0;
for m = 1:5
    y = y + m * m;
end
```

$$y = \sum_{m=1}^{5} m^2$$

```
y = 0;
for m = 1:5
    y = y + m;
end
```

$$y = 5! = 5 * 4 * 3 * 2 * 1$$

```
y = 0;
for m = 1:5
    y = y + 1;
end
```

(over)

2. Determine the value of speed after executing the following code segment:

```
speed = 20;
add = 5;
for i = 1:3
    speed = speed + add;
    add = 2 * add;
end
```

```
a. speed = 30
b. speed = 35
c. speed = 45
d. speed = 55
e. Error - the program won't run.
f. Other (explain):  _____
```

3. We wish to add together all of the even numbers between 200 and 300, inclusive (NOTE: "inclusive" means that 200 and 300 are included in the sum). Complete the code scrap below by adding two correct lines of code:

```
_____

for m = 200:2:300

         _____
end
```