Name	 Period

1. The simulation below counts the number of coin flips it takes to achieve a specified number of heads in a row. Once the number of heads is achieved, the simulations stops and prints the number of coin flips. Consider the following output for different conditions.

Specified heads	Output
int numHeads = 4;	30 flips
int numHeads = 12;	10000 flips

Complete the CountHeads class below.	
Complete the CountHeads class below. Public class CountHeads{	
<pre>public static void main(String args[]){</pre>	
}	
	/6

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```
2. Write the following for-loops as while loops

(a)

int y;

for(y = 5; y < 10; y+=2)

{
    System.out.println(y);
}

//4
```

```
3. What is the output for each code segment below,

(a)

int m = 0;
int j = 0;

do{
    j *= -1;
    if(j >= 0) {
        m += 2;
    }
    j+=2;
} yhile (m < 4);

System.out.println(j);

Ad (int i = 5, j = 0;
    do{
        for(j = 0; j < i; j++) {
            System.out.print("*");
        }
        System.out.println();
    i--;
} while (i > 0);
```

Score _____/20

4. The Magic 8 Ball is a plastic sphere resembling an 8-ball. Inside is a floating die with 20 faces. Each face has an affirmative, negative, or non-committal statement printed in raised letters. These messages are read through a window on the ball's bottom in response to a "yes" or "no" question. Finish the				
Magic8Ball class which simulates a Magic 8 Ball. You simulator needs to produce messages first 2 cases only. Once the message is displayed, prompt the user if they would like to play a the user types "y", the simulation will continue to run.				
Public class CountHeads{				
<pre>public static void main(String args[]){</pre>				
}				
}				
	/6			