

**Worksheet: Iteration Practice (while and for)**

1. Write a `for` loop that prints all the numbers from 1 to 10, inclusive.

2. Write a `while` loop that prints all the numbers from 10 down to 1, inclusive.

3. Write a loop that prints all the even numbers from 20 down to 2, inclusive.

4. Write a loop that prints the sum of odd numbers from 1 to 50, inclusive.

5. Write a loop that calculates and prints the value of 10! (recall  $5! = 1 \times 2 \times 3 \times 4 \times 5$ ).

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6. Rewrite the code from the first box into the second box, using correct spacing and indentation.

```
public static void printCharGrid(char c,int x,int y){while(y>0){int
z=x;while(z>0){System.out.print(c);z--;if(z==0)System.out.println();}
y--;}}
```

Complete the trace table by writing the values of the variables after each execution of line 3, 6, or 10.

after line #	char c	int x	int y	int z	output
3	A	3	2	3	
6	A	3	2	2	A
6					
10					AAA↵
3					