

For exercises 1 to 14, indicate the output that will be produced. Assume the following declarations are made just before each exercise. That is, assume these initializations are in effect at the beginning of each problem:

```
final int MIN = 10, MAX = 20;  
int num = 15;
```

1.

```
while(num < MAX)  
{  
    System.out.println(num);  
    num = num + 1;  
}
```
2.

```
while(num < MAX)  
{  
    num = num + 1;  
    System.out.println(num);  
}
```
3.

```
while(num <= MAX)  
{  
    num = num + 1;  
    System.out.println(num);  
}
```
4.

```
while(num < MAX)  
{  
    System.out.println(num);  
    num = num - 1;  
}
```
5.

```
while(num > MIN)  
{  
    System.out.println(num);  
    num = num - 1;  
}
```
6.

```
while (num < MAX)  
{  
    System.out.println (num);  
    num += 2;  
}
```

7.

```
while (num < MAX)
{
    if (num%2 == 0)
        System.out.println(num);
    num++;
}
```
8.

```
while (num <= MAX)
{
    num = num + 1;
    if (num*2 > MAX+num)
        System.out.println(num);
}
```
9.

```
for(int value=0; value >= 7; value++)
    System.out.println(value);
```
10.

```
for(int value=7; value < 0; value--)
    System.out.println(value);
```
11.

```
for(int value=1; value <= 20; value+=4)
    System.out.println(value);
```
12.

```
for(int value=num; value <= MAX; value++)
    System.out.println(value);
```
13.

```
for(int value=num; value <= MAX; value++)
    if (value%4 != 0)
        System.out.println(value);
```
14.

```
for(int value=num; value <= MAX && value % 5 == 0; value++)
    System.out.println(value);
```

Pick the best option for the output:

15.

```
for(int y = 0; y < 5; y++)
    System.out.print(y + " ");
```

a) y y y y y	d) 0 0 0 0 0
b) 0 1 2 3 4	e) None of these
c) 1 2 3 4 5	