

Loops (with solutions)

Indicate the output that will be produced for each exercise. For questions 1 to 5, assume the following declarations are made just before each exercise. That is, assume these initializations are in effect at the beginning of each problem:
(The outputs are given on the right.)

```
double MIN = 10;
double MAX = 20;
double num = 15;
```

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|----|--|--|
| 1. | <pre>while (num < MAX) { System.out.println (num); num = num + 1; }</pre> | <p>15
16
17
18
19</p> |
| 2. | <pre>while (num < MAX) { num = num + 1; System.out.println (num); }</pre> | <p>16
17
18
19
20</p> |
| 3. | <pre>while (num < MAX) { System.out.println (num); num = num - 1; }</pre> | <p>15
14
13
<i>infinitely...</i></p> |
| 4. | <pre>while (num > MIN) { System.out.println (num); num = num - 1; }</pre> | <p>15
14
13
12
11</p> |
| 5. | <pre>while (num < MAX) { System.out.println (num); num = num + 2; }</pre> | <p>15
17
19</p> |