

While loops (indefinite pre-test iteration, chapter 5)

Do NOT write on this test. Record all answers on the bubble sheet. **Closed book. No notes.** Work strictly from memory. **No calculators. No time limit. Scratch paper okay.**

How many times does the body of the loop execute? (Mark 9 if 9 or more.)

- 1/1p. `int h=-5; while(++h <= 2) body;`
- 2/1p. `int r=-2; while(++r != 2) body;`
- 3/1p. `int h=3; while(h-- != -2) body;`
- 4/1p. `int k=-2; while(k-- != -6) body;`
- 5/1p. `int s=-4; while(s++ < 0) body;`
- 6/1p. `int v=2; while(v++ < 10) body;`
- 7/1p. `int z=-4; while(z++ < -4) body;`
- 8/1p. `int z=5; while(z++ != 12) body;`
- 9/1p. `int n=0; while(--n != -2) body;`
- 10/1p. `int r=2; while(--r != -2) body;`
- 11/1p. `int d=5; while(d-- >= 1) body;`
- 12/1p. `int r=1; while(++r != 9) body;`
- 13/1p. `int x=0; while(++x >= -4) body;`
- 14/1p. `int j=4; while(j-- != -1) body;`
- 15/1p. `int c=-5; while(c-- != -5) body;`
- 16/1p. `int z=7; while(z++ <= 14) body;`
- 17/1p. `int s=-3; while(s-- > -6) body;`
- 18/1p. `int s=-7; while(s-- > -9) body;`
- 19/1p. `int u=-4; while(++u < -3) body;`
- 20/1p. `int h=-4; while(h-- != -6) body;`

Total points 20.

Answer Key (points per line)

1 (1).	7
2 (1).	3
3 (1).	5
4 (1).	4
5 (1).	4
6 (1).	8
7 (1).	0
8 (1).	7
9 (1).	1
10 (1).	3
11 (1).	5
12 (1).	7
13 (1).	9
14 (1).	5
15 (1).	0
16 (1).	8
17 (1).	3
18 (1).	2
19 (1).	0
20 (1).	2

Total points 20.