

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 p=-2; while(++p != 5) body;`
- 2/1p. `int t=1; while(t++ <= 0) body;`
- 3/1p. `int w=-1; while(--w < 6) body;`
- 4/1p. `int g=-4; while(++g != 5) body;`
- 5/1p. `int h=5; while(++h != 14) body;`
- 6/1p. `int n=-8; while(n++ <= -6) body;`
- 7/1p. `int f=8; while(f-- != 4) body;`
- 8/1p. `int x=6; while(++x >= 2) body;`
- 9/1p. `int n=0; while(n-- >= -2) body;`
- 10/1p. `int w=0; while(w-- != -8) body;`
- 11/1p. `int w=7; while(w++ <= 8) body;`
- 12/1p. `int t=-3; while(t++ <= 4) body;`
- 13/1p. `int p=1; while(--p >= -2) body;`
- 14/1p. `int b=5; while(b++ != 13) body;`
- 15/1p. `int w=0; while(w++ < 3) body;`
- 16/1p. `int g=-10; while(--g >= -15) body;`
- 17/1p. `int j=7; while(--j >= 7) body;`
- 18/1p. `int e=3; while(--e <= 6) body;`
- 19/1p. `int h=-8; while(h++ != 0) body;`
- 20/1p. `int j=3; while(--j >= 1) body;`

Total points 20.

Answer Key (points per line)

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

Total points 20.