

Do-While loops (indefinite post-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 z=1; do body; while(--z >= 1);`
- 2/1p. `int n=5; do body; while(++n != 7);`
- 3/1p. `int d=-4; do body; while(++d <= -2);`
- 4/1p. `int n=-10; do body; while(--n > -14);`
- 5/1p. `int z=10; do body; while(--z != 14);`
- 6/1p. `int k=4; do body; while(--k >= 3);`
- 7/1p. `int p=-3; do body; while(--p != -9);`
- 8/1p. `int h=1; do body; while(--h != -3);`
- 9/1p. `int r=-3; do body; while(r++ < 3);`
- 10/1p. `int y=-10; do body; while(--y > -11);`
- 11/1p. `int p=1; do body; while(++p != 5);`
- 12/1p. `int h=-7; do body; while(++h <= -7);`
- 13/1p. `int i=6; do body; while(i-- > 3);`
- 14/1p. `int m=-5; do body; while(--m >= -5);`
- 15/1p. `int v=10; do body; while(++v != 13);`
- 16/1p. `int i=-5; do body; while(i++ > -10);`
- 17/1p. `int x=-7; do body; while(x-- != -12);`
- 18/1p. `int k=6; do body; while(--k >= 6);`
- 19/1p. `int i=-3; do body; while(i-- > -3);`
- 20/1p. `int d=-3; do body; while(++d < -2);`

Total points 20.

Answer Key (points per line)

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

Total points 20.