Mixed Loops

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 m=-5; while(m++ < -4) body;

2/1p.   int q; for(q=-3; q<=3; q++) body;

3/1p.   int w; for(w=-6; w>=-9; ++w) body;

4/1p.   int n=-5; do body; while(n++ <= -1);

5/1p.   int h; for(h=-8; h!=-15; h++) body;

6/1p.   int s=-5; do body; while(++s != -12);

7/1p.   int k; for(k=6; k<12; k--) body;

8/1p.   int g; for(g=-2; g>=-5; --g) body;

9/1p.   int r=-3; do body; while(++r <= 0);

10/1p. int d; for(d=-4; d>=-3; --d) body;

11/1p. int f=-2; do body; while(f-- <= 2);

12/1p. int u=3; while(u++ <= 6) body;

13/1p. int d=8; while(--d > 0) body;

14/1p. int q=0; while(--q <= 7) body;

15/1p. int r; for(r=3; r>=3; r--) body;

16/1p. int k=-4; while(k++ < -2) body;

17/1p. int r=6; while(r-- >= 6) body;

18/1p. int g; for(g=-4; g!=3; g++) body;

19/1p. int m=-6; while(++m != 2) body;

20/1p. int i=7; while(i++ != 10) body;

21/1p. int k; for(k=4; k!=4; ++k) body;

22/1p. int c=6; do body; while(c++ != 3);

23/1p. int v=3; do body; while(--v > -1);

24/1p. int k; for(k=-1; k!=2; k++) body;

25/1p. int m; for(m=-4; m<3; ++m) body;

26/1p. int j; for(j=7; j>-1; j--) body;

27/1p. int p; for(p=2; p>-5; p--) body;

28/1p. int w; for(w=-1; w>=-3; --w) body;

29/1p. int m; for(m=-2; m<5; ++m) body;

30/1p. int s=2; do body; while(s++ < 3);

Total points 30.

Answer Key (points per line)

1 (1).	1
2 (1).	7
3 (1).	9
4 (1).	6
5 (1).	9
6 (1).	9
7 (1).	9
8 (1).	4
9 (1).	4
10 (1).	0
11 (1).	9
12 (1).	4
13 (1).	7
14 (1).	9
15 (1).	1
16 (1).	2
17 (1).	1
18 (1).	7
19 (1).	7
20 (1).	3
21 (1).	0
22 (1).	9
23 (1).	4
24 (1).	3
25 (1).	7
26 (1).	8
27 (1).	7
28 (1).	3
29 (1).	7
30 (1).	2

Total points 30.