

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 f; for(f=-7; f<-6; f++) body;
- 2/1p. int e=2; while(++e != 8) body;
- 3/1p. int s=-7; while(--s >= -14) body;
- 4/1p. int h=-6; while(++h < 0) body;
- 5/1p. int h; for(h=-5; h<0; h++) body;
- 6/1p. int a=6; while(a++ < 7) body;
- 7/1p. int k=8; do body; while(++k < 16);
- 8/1p. int a=0; while(--a != 6) body;
- 9/1p. int h=-9; while(--h > -17) body;
- 10/1p. int a=-7; do body; while(a++ != -6);
- 11/1p. int p=-3; do body; while(p++ < 4);
- 12/1p. int j=-7; while(--j < -1) body;
- 13/1p. int s=-3; while(++s != 6) body;
- 14/1p. int n=-7; do body; while(n++ != -2);
- 15/1p. int a; for(a=-3; a<-2; ++a) body;
- 16/1p. int b=5; do body; while(++b != 8);
- 17/1p. int y; for(y=-2; y<0; ++y) body;
- 18/1p. int d; for(d=-2; d!=2; d++) body;
- 19/1p. int w=-2; do body; while(++w <= 4);
- 20/1p. int k=6; do body; while(k++ <= 11);
- 21/1p. int q; for(q=-2; q!=6; ++q) body;
- 22/1p. int f; for(f=9; f<=16; --f) body;
- 23/1p. int h=-9; do body; while(h-- >= -9);
- 24/1p. int g; for(g=10; g>=4; g--) body;
- 25/1p. int s=2; do body; while(++s != 8);
- 26/1p. int b=9; while(--b >= 9) body;
- 27/1p. int v=-6; while(v-- > -8) body;
- 28/1p. int h=-6; do body; while(h++ != -4);
- 29/1p. int c; for(c=-1; c>=-4; --c) body;
- 30/1p. int r=4; while(r-- >= 4) body;

Total points 30.

Answer Key (points per line)

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

Total points 30.