

**Mixed Precedence**

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.**

Precedence: What is the value of each expression? Mark (I) for error, (J) for none of the above.

- |        |                              |         |         |         |         |        |        |        |        |
|--------|------------------------------|---------|---------|---------|---------|--------|--------|--------|--------|
| 1/1p.  | $2 >= 4 \mid \mid 8 * 9 + 6$ | (A) -94 | (B) -16 | (C) -13 | (D) 0   | (E) 1  | (F) 3  | (G) 6  | (H) 7  |
| 2/1p.  | $2 * 6 / 3 * 7 + 4$          | (A) -87 | (B) 0   | (C) 8   | (D) 10  | (E) 13 | (F) 36 | (G) 44 | (H) 61 |
| 3/1p.  | $8 + 1 \% 7 \% 9 - 2$        | (A) -74 | (B) -57 | (C) -2  | (D) 0   | (E) 4  | (F) 7  | (G) 9  | (H) 41 |
| 4/1p.  | $8 - 6 - 4 < 7 > = 1$        | (A) -94 | (B) -82 | (C) -49 | (D) 0   | (E) 1  | (F) 2  | (G) 8  | (H) 97 |
| 5/1p.  | $3 * 3 \&\& 8 < 8 + 6$       | (A) -13 | (B) 1   | (C) 6   | (D) 7   | (E) 9  | (F) 18 | (G) 21 | (H) 75 |
| 6/1p.  | $6 / 1 \% 8 - 9 * 2$         | (A) -35 | (B) -6  | (C) -4  | (D) -2  | (E) -1 | (F) 11 | (G) 21 | (H) 89 |
| 7/1p.  | $8 + 9 < 3 == 0 * 4$         | (A) -37 | (B) 0   | (C) 1   | (D) 4   | (E) 9  | (F) 12 | (G) 32 | (H) 36 |
| 8/1p.  | $9 \% 6 * 4 + 7 + 2$         | (A) -51 | (B) 9   | (C) 11  | (D) 18  | (E) 21 | (F) 35 | (G) 57 | (H) 73 |
| 9/1p.  | $1 - 1 < 4 > 8 - 8$          | (A) -67 | (B) -8  | (C) -7  | (D) 0   | (E) 1  | (F) 5  | (G) 9  | (H) 96 |
| 10/1p. | $6 + 7 - 0 < = 9 > = 9$      | (A) -57 | (B) -3  | (C) 0   | (D) 1   | (E) 12 | (F) 13 | (G) 51 | (H) 88 |
| 11/1p. | $5 - 1 \% 5 + 2 \% 5$        | (A) -93 | (B) -35 | (C) -17 | (D) 0   | (E) 4  | (F) 6  | (G) 34 | (H) 65 |
| 12/1p. | $4 - 3 - 3 \% 9 * 7$         | (A) -20 | (B) -2  | (C) 4   | (D) 22  | (E) 28 | (F) 49 | (G) 61 | (H) 65 |
| 13/1p. | $4 + 7 - 5 * 1 + 1$          | (A) -94 | (B) -22 | (C) 1   | (D) 7   | (E) 8  | (F) 12 | (G) 16 | (H) 20 |
| 14/1p. | $5 + 3 + 1 / 9 - 5$          | (A) -51 | (B) -4  | (C) 0   | (D) 2   | (E) 3  | (F) 6  | (G) 8  | (H) 12 |
| 15/1p. | $6 - 8 - 2 * 5 + 5$          | (A) -54 | (B) -29 | (C) -19 | (D) -15 | (E) -7 | (F) 3  | (G) 5  | (H) 13 |
| 16/1p. | $2 * 2 + 5 / 5 - 6$          | (A) -10 | (B) -9  | (C) -6  | (D) -5  | (E) -4 | (F) -1 | (G) 29 | (H) 64 |
| 17/1p. | $2 + 4 ! = 1 ! = 5 * 5$      | (A) -38 | (B) -28 | (C) 1   | (D) 3   | (E) 5  | (F) 7  | (G) 15 | (H) 18 |
| 18/1p. | $1 - 0 - 9 + 8 * 5$          | (A) -84 | (B) -48 | (C) -30 | (D) 0   | (E) 6  | (F) 10 | (G) 32 | (H) 90 |
| 19/1p. | $7 / 3 + 4 * 2 + 5$          | (A) -63 | (B) -53 | (C) -6  | (D) 0   | (E) 5  | (F) 15 | (G) 30 | (H) 42 |
| 20/1p. | $3 * 4 - 3 \% 8 \% 3$        | (A) -97 | (B) -60 | (C) -23 | (D) 1   | (E) 3  | (F) 11 | (G) 12 | (H) 36 |

Total points 20.

**Answer Key** (points per line)

- |         |         |
|---------|---------|
| 1 (1).  | E (1)   |
| 2 (1).  | J (32)  |
| 3 (1).  | F (7)   |
| 4 (1).  | E (1)   |
| 5 (1).  | B (1)   |
| 6 (1).  | J (-12) |
| 7 (1).  | C (1)   |
| 8 (1).  | E (21)  |
| 9 (1).  | E (1)   |
| 10 (1). | C (0)   |
| 11 (1). | F (6)   |
| 12 (1). | A (-20) |
| 13 (1). | D (7)   |
| 14 (1). | E (3)   |
| 15 (1). | E (-7)  |
| 16 (1). | F (-1)  |
| 17 (1). | C (1)   |
| 18 (1). | G (32)  |
| 19 (1). | F (15)  |
| 20 (1). | G (12)  |

Total points 20.