

Answer Sheet — Multiple-Choice Questions and Student-Produced Responses

You must use a No. 2 pencil. It is important that marks are dark and complete. Don't use a mechanical pencil. If you need to change a response, erase as completely as possible. Incomplete marks or erasures may affect your score.

Complete Mark:

Incomplete Marks:








































Section













































1

**No
Calculator
Allowed**



- | | | | | |
|----|---|---|---|---|
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |
| 7 |  |  |  |  |
| 8 |  |  |  |  |
| 9 |  |  |  |  |
| 10 |  |  |  |  |
| 11 |  |  |  |  |

- | | | | | |
|----|---|---|---|---|
| 12 | A | B | C | D |
| 13 | A | B | C | D |
| 14 | A | B | C | D |
| 15 | A | B | C | D |
| 16 | A | B | C | D |
| 17 | A | B | C | D |
| 18 | A | B | C | D |
| 19 | A | B | C | D |
| 20 | A | B | C | D |
| 21 | A | B | C | D |
| 22 | A | B | C | D |

- | | | | | |
|----|---|---|---|---|
| 23 |  |  |  |  |
| 24 |  |  |  |  |
| 25 |  |  |  |  |
| 26 |  |  |  |  |
| 27 |  |  |  |  |
| 28 |  |  |  |  |
| 29 |  |  |  |  |
| 30 |  |  |  |  |
| 31 |  |  |  |  |
| 32 |  |  |  |  |
| 33 |  |  |  |  |

- 34 ☐ A ☒ B ☐ C ☐ D
- 35 ☐ A ☐ B ☐ C ☒ D
- 36 ☐ A ☐ B ☐ C ☒ D
- 37 ☒ A ☐ B ☐ C ☐ D
- 38 ☐ A ☐ B ☐ C ☒ D
- 39 ☒ A ☐ B ☐ C ☐ D
- 40 ☐ A ☐ B ☒ C ☐ D
- 41 ☐ A ☒ B ☐ C ☐ D
- 42 ☐ A ☐ B ☐ C ☒ D
- 43 ☐ A ☐ B ☐ C ☒ D
- 44 ☒ A ☐ B ☐ C ☐ D

- | | | | | |
|----|-----|-----|-----|-----|
| 45 | (A) | (B) | (C) | (D) |
| 46 | (A) | (B) | (C) | (D) |
| 47 | (A) | (B) | (C) | (D) |
| 48 | (A) | (B) | (C) | (D) |
| 49 | (A) | (B) | (C) | (D) |
| 50 | (A) | (B) | (C) | (D) |
| 51 | (A) | (B) | (C) | (D) |
| 52 | (A) | (B) | (C) | (D) |

$$\frac{46}{52}$$

Section

2

**No
Calculator
Allowed**



































- | | | | | |
|---|---|---|---|---|
| 1 | A | B | C | D |
| 2 | A | B | C | D |
| 3 | A | B | C | D |
| 4 | A | B | C | D |
| 5 | A | B | C | D |
| 6 | A | B | C | D |
| 7 | A | B | C | D |
| 8 | A | B | C | D |
| 9 | A | B | C | D |

- | | | | | |
|----|-----|-----|-----|-----|
| 10 | (A) | (B) | (C) | (D) |
| 11 | (A) | (B) | (C) | (D) |
| 12 | (A) | (B) | (C) | (D) |
| 13 | (A) | (B) | (C) | (D) |
| 14 | (A) | (B) | (C) | (D) |
| 15 | (A) | (B) | (C) | (D) |
| 16 | (A) | (B) | (C) | (D) |
| 17 | (A) | (B) | (C) | (D) |
| 18 | (A) | (B) | (C) | (D) |

- | | | | | |
|----|-----|-----|-----|-----|
| 19 | (A) | (B) | (C) | (D) |
| 20 | (A) | (B) | (C) | (D) |
| 21 | (A) | (B) | (C) | (D) |
| 22 | (A) | (B) | (C) | (D) |
| 23 | (A) | (B) | (C) | (D) |
| 24 | (A) | (B) | (C) | (D) |
| 25 | (A) | (B) | (C) | (D) |
| 26 | (A) | (B) | (C) | (D) |
| 27 | (A) | (B) | (C) | (D) |

- 28 (A) (B) (C) (D)
29 (A) (B) (C) (D)
30 (A) (B) (C) (D)
31 (A) (B) (C) (D)
32 (A) (B) (C) (D)
33 (A) (B) (C) (D)
34 (A) (B) (C) (D)
35 (A) (B) (C) (D)
36 (A) (B) (C) (D)

- | | | | | |
|----|---|---|---|---|
| 37 |  |  |  |  |
| 38 |  |  |  |  |
| 39 |  |  |  |  |
| 40 |  |  |  |  |
| 41 |  |  |  |  |
| 42 |  |  |  |  |
| 43 |  |  |  |  |
| 44 |  |  |  |  |

$$\frac{38}{44}$$

Section

3

**No
Calculator
Allowed**



- 1 (A) (B) (C) (D)
2 (A) (B) (C) (D)
3 (A) (B) (C) (D)
4 (A) (B) (C) (D)
5 (A) (B) (C) (D)
6 (A) (B) (C) (D)
7 (A) (B) (C) (D)
8 (A) (B) (C) (D)
9 (A) (B) (C) (D)
10 (A) (B) (C) (D)
11 (A) (B) (C) (D)
12 (A) (B) (C) (D)
13 (A) (B) (C) (D)
14 (A) (B) (C) (D)
15 (A) (B) (C) (D)

Student-Produced Responses Enter answers as directed in your test book. Answers must be bubbled to be scored. You won't receive credit for anything written in the boxes.

- | | | | | |
|----|---|---|---|---|
| 16 | | | | 4 |
| | | 1 | 1 | |
| | 0 | 0 | 0 | |
| 1 | 1 | 1 | 1 | |
| 2 | 2 | 2 | 2 | |
| 3 | 3 | 3 | 3 | |
| 4 | 4 | 4 | 4 | |
| 5 | 5 | 5 | 5 | |
| 6 | 6 | 6 | 6 | |
| 7 | 7 | 7 | 7 | |
| 8 | 8 | 8 | 8 | |
| 9 | 9 | 9 | 9 | |

- | | | | | |
|----|---|---|---|---|
| 17 | 1 | 5 | 1 | 4 |
| | 1 | 1 | | |
| | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 |
| | 2 | 2 | 2 | 2 |
| | 3 | 3 | 3 | 3 |
| | 4 | 4 | 4 | 4 |
| | 5 | 5 | 5 | 5 |
| | 6 | 6 | 6 | 6 |
| | 7 | 7 | 7 | 7 |
| | 8 | 8 | 8 | 8 |
| | 9 | 9 | 9 | 9 |

- | | | | | |
|----|---|---|---|---|
| 18 | | | 9 | 0 |
| | 1 | 1 | | |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 |

- | | | | | |
|----|---|---|---|---|
| 19 | | 3 | / | 2 |
| | 1 | | | |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 |

- | | | | | |
|----|--|---|---|---|
| 20 | | 1 | / | 6 |
| | | 1 | | |
| | | | | |
| | | 0 | 0 | 0 |
| | | 0 | 1 | 1 |
| 1 | | 2 | 2 | 2 |
| 2 | | 3 | 3 | 3 |
| 3 | | 4 | 4 | 4 |
| 4 | | 5 | 5 | 5 |
| 5 | | 6 | 6 | 6 |
| 6 | | 7 | 7 | 7 |
| 7 | | 8 | 8 | 8 |
| 8 | | 9 | 9 | 9 |
| 9 | | | | |

$$\frac{18}{20}$$

$$360 + 350 + 720 = 1430$$



33

