

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 | | (A) | | (C) | (D) |
| 2 | | (A) | | (C) | (D) |
| 3 | | (A) | | (C) | (D) |
| 4 | | (A) | | (C) | (D) |
| 5 | | (A) | (B) | (C) | (D) |
| 6 | | (B) | (B) | (C) | (D) |
| 7 | | (B) | (B) | (C) | (D) |
| 8 | | (B) | (B) | (C) | (D) |
| 9 | | (A) | (B) | (C) | (D) |
| 10 | | (A) | (B) | (C) | (D) |
| 11 | | (A) | (B) | (C) | (D) |

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|----|-----|-----|-----|-----|
| 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) |

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|----|---|---|---|---|
| 23 | A | B | C | D |
| 24 | A | B | C | D |
| 25 | A | C | C | D |
| 26 | A | B | C | D |
| 27 | B | B | C | D |
| 28 | A | B | C | D |
| 29 | A | B | C | D |
| 30 | A | B | C | D |
| 31 | A | C | C | D |
| 32 | A | B | C | D |
| 33 | B | B | C | D |

- | | |
|---------------|----------------------------|
| 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) |

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|---------------|--------------|--------------|--------------|--------------|
| 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 |

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) |


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|----|-----|-----|-----|-----|
| 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) |

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|----|-----|-----|-----|-----|
| 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) |

Section
3

**No
Calculator
Allowed**



- | | | | | |
|----|---|---|---|---|
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |
| 7 |  |  |  |  |
| 8 |  |  |  |  |
| 9 |  |  |  |  |
| 10 |  |  |  |  |
| 11 |  |  |  |  |
| 12 |  |  |  |  |
| 13 |  |  |  |  |
| 14 |  |  |  |  |
| 15 |  |  |  |  |

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.

- | | | | |
|---|---|---|---|
| | | | |
| | 7 | 7 | |
| • | • | • | • |
| | 0 | 0 | |
| 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 | 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 | |

- | | | | | |
|----|---|---|---|--|
| 18 | | | | |
| | 7 | 7 | | |
| • | • | • | • | |
| | 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 | |

- | | | | |
|---|---|---|---|
| | | | |
| | 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 |

- | | | | | |
|----|---|---|---|--|
| 20 | | | | |
| | | 1 | 7 | |
| • | • | • | • | |
| | 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 | |

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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

4

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

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.

31

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

32

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

33

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

34

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

35

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

36

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

37

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

38

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

15
38