

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 <input checked="" type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 12 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 23 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 34 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 45 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 2 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D            | 13 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 24 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 35 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 46 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 3 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D            | 14 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 25 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 36 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 47 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 4 <input checked="" type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 15 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 26 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 37 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 48 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 5 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D            | 16 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 27 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 38 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 49 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 6 <input checked="" type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 17 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 28 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 39 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 50 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 7 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D            | 18 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 29 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 40 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 51 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 8 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D            | 19 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 30 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 41 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 52 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 9 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D            | 20 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 31 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 42 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |  |
| 10 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D           | 21 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 32 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 43 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |  |
| 11 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D           | 22 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 33 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 44 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |  |

33  
52

Section 2

No Calculator Allowed



- |   |  |  |  |  |
|---|--|--|--|--|
| 1 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 10 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 19 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 28 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 37 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 2 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 11 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 20 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 29 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 38 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 3 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 12 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 21 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 30 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 39 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 4 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 13 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 22 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 31 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 40 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 5 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 14 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 23 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 32 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 41 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 6 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 15 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 24 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 33 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 42 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 7 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 16 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 25 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 34 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 43 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 8 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 17 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 26 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 35 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 44 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 9 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 18 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 27 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 36 <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |  |

25  
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

	7	7	
	0	0	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

17

	7	7	
	0	0	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

	7	7	
	0	0	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

19

	7	7	
	0	0	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

20

	7	7	
	0	0	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

10  
20

$$290 + 270 + 580 = 1140$$

X

X

# 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

4

- 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)

Calculator  
Allowed



**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

21 + 40  
= 31

21  
38