

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 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 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

31
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 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

33
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

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

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

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

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

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

11
20

$$270 + 310 + 540 = 1120$$



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 | | |
| 0 | 0 | 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 |
| 5 | 5 | 5 | 5 |
| 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 |

32

| | | | |
|---|---|---|---|
| | | | |
| 1 | 1 | | |
| 0 | 0 | 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 |
| 5 | 5 | 5 | 5 |
| 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 |

33

| | | | |
|---|---|---|---|
| | | | |
| 1 | 1 | | |
| 0 | 0 | 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 |
| 5 | 5 | 5 | 5 |
| 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 |

34

| | | | |
|---|---|---|---|
| | | | |
| 1 | 1 | | |
| 0 | 0 | 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 |
| 5 | 5 | 5 | 5 |
| 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 |

35

| | | | |
|---|---|---|---|
| | | | |
| 1 | 1 | | |
| 0 | 0 | 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 |
| 5 | 5 | 5 | 5 |
| 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 |

36

| | | | |
|---|---|---|---|
| | | | |
| 1 | 1 | | |
| 0 | 0 | 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 |
| 5 | 5 | 5 | 5 |
| 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 |

37

| | | | |
|---|---|---|---|
| | | | |
| 1 | 1 | | |
| 0 | 0 | 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 |
| 5 | 5 | 5 | 5 |
| 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 |

38

| | | | |
|---|---|---|---|
| | | | |
| 1 | 1 | | |
| 0 | 0 | 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 |
| 5 | 5 | 5 | 5 |
| 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 |

$$20 + 11 = 31$$

$$\frac{20}{38}$$

FL

