

The top portion of the section of the answer sheet that you will use in taking the Mathematics Level IC test must be filled in exactly as shown in the illustration below. Note carefully that you have to do all of the following on your answer sheet.

1. Print MATHEMATICS LEVEL IC on the line under the words "Subject Test (print)."
2. In the shaded box labeled "Test Code" fill in four ovals:
  - Fill in oval 3 in the row labeled V.
  - Fill in oval 2 in the row labeled W.
  - Fill in oval 5 in the row labeled X.
  - Fill in oval A in the row labeled Y.

<p><b>Test Code</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;">V</td> <td style="width: 5%; text-align: center;">1</td> <td style="width: 5%; text-align: center;">2</td> <td style="width: 5%; text-align: center;">3</td> <td style="width: 5%; text-align: center;">4</td> <td style="width: 5%; text-align: center;">5</td> <td style="width: 5%; text-align: center;">6</td> <td style="width: 5%; text-align: center;">7</td> <td style="width: 5%; text-align: center;">8</td> <td style="width: 5%; text-align: center;">9</td> </tr> <tr> <td style="text-align: center;">W</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td style="text-align: center;">6</td> <td style="text-align: center;">7</td> <td style="text-align: center;">8</td> <td style="text-align: center;">9</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td style="text-align: center;">6</td> <td style="text-align: center;">7</td> <td style="text-align: center;">8</td> <td style="text-align: center;">9</td> </tr> <tr> <td style="text-align: center;">Y</td> <td style="text-align: center;">A</td> <td style="text-align: center;">B</td> <td style="text-align: center;">C</td> <td style="text-align: center;">D</td> <td style="text-align: center;">E</td> <td colspan="4"></td> </tr> <tr> <td style="text-align: center;">Q</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td style="text-align: center;">6</td> <td style="text-align: center;">7</td> <td style="text-align: center;">8</td> <td style="text-align: center;">9</td> </tr> </table>	V	1	2	3	4	5	6	7	8	9	W	1	2	3	4	5	6	7	8	9	X	1	2	3	4	5	6	7	8	9	Y	A	B	C	D	E					Q	1	2	3	4	5	6	7	8	9	<p><b>Subject Test (print)</b></p> <p>MATHEMATICS LEVEL IC</p>
V	1	2	3	4	5	6	7	8	9																																										
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Y	A	B	C	D	E																																														
Q	1	2	3	4	5	6	7	8	9																																										

3. Please answer Part I and Part II below by filling in the specified ovals in row Q that correspond to the courses you have taken or are presently taking, and the oval that corresponds to the type of calculator you are going to use to take this test. The information that you provide is for statistical purposes only and will not affect your score on the test.

**Part I.** Which of the following describes a mathematics course you have taken or are currently taking? (FILL IN ALL OVALS THAT APPLY.)

- Algebra I or Elementary Algebra **OR** Course I of a college preparatory mathematics sequence —Fill in oval 1.
- Geometry **OR** Course II of a college preparatory mathematics sequence —Fill in oval 2.
- Algebra II or Intermediate Algebra **OR** Course III of a college preparatory mathematics sequence —Fill in oval 3.
- Elementary Functions (Precalculus) and/or Trigonometry **OR** beyond Course III of a college preparatory mathematics sequence —Fill in oval 4.
- Advanced Placement Mathematics (Calculus AB or Calculus BC) —Fill in oval 5.

**Part II.** What type of calculator did you bring to use for this test? (FILL IN THE ONE OVAL THAT APPLIES.)

- 4-Function —Fill in oval 6.
- Scientific —Fill in oval 7.
- Graphing —Fill in oval 8.
- None (Forgot or do not have a calculator) —Fill in oval 9.

When the supervisor gives the signal, turn the page and begin the Mathematics Level IC test. There are 100 numbered ovals on the answer sheet and 50 questions in the Mathematics Level IC test. Therefore, use only ovals 1 to 50 for recording your answers.

# MATHEMATICS LEVEL IC TEST

For each of the following problems, decide which is the BEST of the choices given. If the exact numerical value is not one of the choices, select the choice that best approximates this value. Then fill in the corresponding oval on the answer sheet.

Notes: (1) A calculator will be necessary for answering some (but not all) of the questions in this test. For each question you will have to decide whether or not you should use a calculator. The calculator you use must be at least a scientific calculator; programmable calculators and calculators that can display graphs are permitted.

(2) The only angle measure used on this test is degree measure. Make sure your calculator is in the degree mode.

(3) Figures that accompany problems in this test are intended to provide information useful in solving the problems. They are drawn as accurately as possible EXCEPT when it is stated in a specific problem that its figure is not drawn to scale. All figures lie in a plane unless otherwise indicated.

(4) Unless otherwise specified, the domain of any function  $f$  is assumed to be the set of all real numbers  $x$  for which  $f(x)$  is a real number.

(5) Reference information that may be useful in answering the questions in this test can be found on the page preceding Question 1.

USE THIS SPACE FOR SCRATCHWORK.

1. If  $2t + 3t = 4t + 6t - 10$ , then  $t =$

- (A)  $-1$  (B)  $0$  (C)  $\frac{1}{2}$  (D)  $1$  (E)  $2$

2. For all  $x \neq 0$ ,  $\frac{1}{\left(\frac{2}{x^2}\right)} =$

- (A)  $\frac{x^2}{2}$  (B)  $\frac{x^2}{4}$  (C)  $\frac{2}{x^2}$  (D)  $\frac{1}{2x^2}$  (E)  $2x^2$

3. If  $x = 1$ , then  $(x - 5)(x + 2) =$

- (A)  $-12$  (B)  $-3$  (C)  $-1$  (D)  $3$  (E)  $12$

GO ON TO THE NEXT PAGE 

MATHEMATICS LEVEL IC TEST—Continued

USE THIS SPACE FOR SCRATCHWORK.

4. In rectangle  $ABCD$  in Figure 1, what are the coordinates of vertex  $C$ ?

- (A) (1, 4)
- (B) (1, 5)
- (C) (5, 7)
- (D) (7, 4)
- (E) (7, 5)

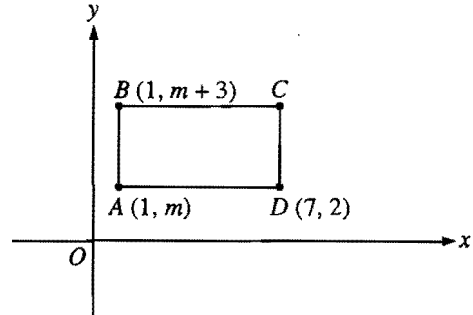


Figure 1

5.  $(a + b + 2)(a + b + 2) =$

- (A)  $(a + b)^2 + 4$
- (B)  $(a + b)^2 + 4(a + b)$
- (C)  $(a + b)^2 + 4(a + b) + 4$
- (D)  $a^2 + b^2 + 4$
- (E)  $a^2 + b^2 + 4ab$

6. At what point does the graph of  $2x + 3y = 12$  intersect the  $y$ -axis?

- (A) (0, -6)
- (B) (0, -2)
- (C) (0, 3)
- (D) (0, 4)
- (E) (0, 12)

7. If  $12x^2 = 7$ , then  $7(12x^2)^2 =$

- (A) 49
- (B) 84
- (C) 98
- (D) 144
- (E) 343

GO ON TO THE NEXT PAGE

**MATHEMATICS LEVEL IC TEST—Continued**

USE THIS SPACE FOR SCRATCHWORK.

8. If lines  $l$  and  $m$  are parallel and are intersected by line  $t$ , what is the sum of the measures of the interior angles on the same side of line  $t$ ?

(A)  $90^\circ$  (B)  $180^\circ$  (C)  $270^\circ$  (D)  $360^\circ$  (E)  $540^\circ$

9. If  $x + y = 5$  and  $x - y = 3$ , then  $x =$

(A) 4 (B) 2 (C) 1 (D) 0 (E) -1

10. If the cube root of the square root of a number is 2, what is the number?

(A) 16  
(B) 32  
(C) 36  
(D) 64  
(E) 256

11. Each face of the cube in Figure 2 consists of nine small squares. The shading on three of the faces is shown, and the shading on the other three faces is such that on opposite faces the reverse squares are shaded. For example, if one face has only the center square shaded, its opposite face will have eight of the nine squares shaded (the center square will not be shaded). What is the total number of shaded squares on all six faces of the cube?

(A) 12 (B) 16 (C) 18 (D) 27 (E) 54

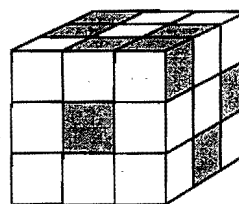


Figure 2

12. For three bins,  $A$ ,  $B$ , and  $C$ , the volume of  $A$  is one-half that of  $B$  and the volume of  $B$  is two-thirds that of  $C$ . If  $A$  has a volume of 210 cubic meters, what is the volume of  $C$ , in cubic meters?

(A) 630 (B) 315 (C) 280 (D) 140 (E) 70

**GO ON TO THE NEXT PAGE** 

**MATHEMATICS LEVEL IC TEST—Continued**

USE THIS SPACE FOR SCRATCHWORK.

13. In Figure 3, when ray  $OA$  is rotated clockwise 7 degrees about point  $O$ , ray  $OA$  will be perpendicular to ray  $OB$ . What is the measure of  $\angle AOB$  before this rotation?

(A)  $97^\circ$  (B)  $90^\circ$  (C)  $87^\circ$  (D)  $83^\circ$  (E)  $80^\circ$

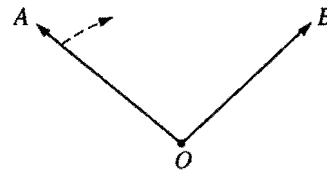


Figure 3

14. If  $x + x + x = y$ , then  $x - y =$

(A)  $-3x$  (B)  $-2x$  (C)  $-\frac{x}{2}$  (D)  $\frac{2}{3}x$  (E)  $2x$

15. If  $f(x) = \frac{1}{x}$  for  $x > 0$ , then  $f(1.5) =$

(A)  $\frac{3}{4}$  (B)  $\frac{2}{3}$  (C)  $\frac{1}{2}$  (D)  $\frac{1}{3}$  (E)  $\frac{1}{4}$

16. If  $15^m = 3^4 \cdot 5^4$ , what is the value of  $m$ ?

(A) 4 (B) 8 (C) 16 (D) 32 (E) 128

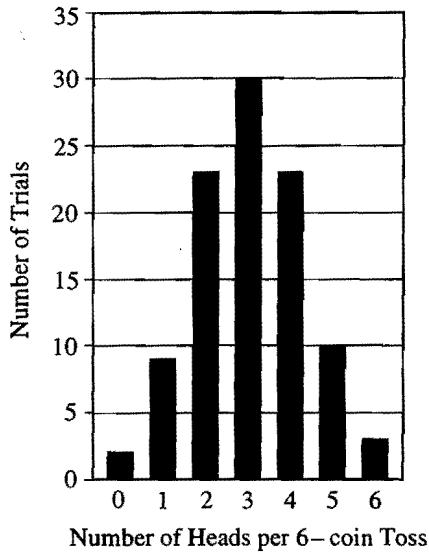
17. What are all values of  $x$  for which  $|x - 2| < 3$ ?

(A)  $x < -1$  or  $x > 5$   
(B)  $x < -1$   
(C)  $x > 5$   
(D)  $-5 < x < 1$   
(E)  $-1 < x < 5$

**GO ON TO THE NEXT PAGE** 

**MATHEMATICS LEVEL IC TEST—Continued**

USE THIS SPACE FOR SCRATCHWORK.



18. An algebra class conducted a coin-tossing experiment. Each trial of the experiment consisted of tossing 6 coins and counting the number of heads that resulted. The results for 100 trials are pictured in the graph above. In approximately what percent of the trials were there 3 or more heads?

(A) 32% (B) 36% (C) 50% (D) 60% (E) 66%

19. The circle in Figure 4 has center  $J$  and radius 6. What is the length of chord  $GH$  ?

(A) 6 (B) 8.49 (C) 10.39 (D) 12 (E) 16.97

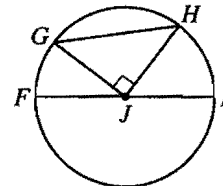
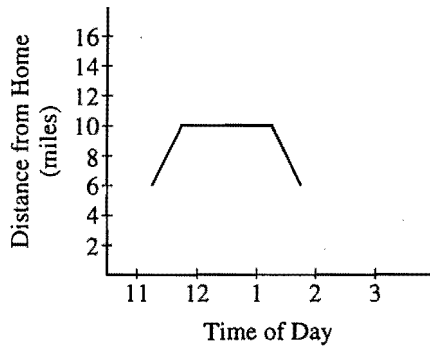


Figure 4

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## MATHEMATICS LEVEL IC TEST — *Continued*



USE THIS SPACE FOR SCRATCHWORK.

20. The graph above shows the distance of Janet's car from her home over a period of time on a given day. Which of the following situations best fits the information?
- (A) Janet leaves her workplace, drives to a restaurant for lunch, and then returns to her workplace.
  - (B) Janet leaves her workplace, drives home, and stays at home.
  - (C) Janet leaves home, drives to a friend's house, and stays at the friend's house.
  - (D) Janet drives from home to the grocery store and then returns home.
  - (E) Janet is at the grocery store, takes the groceries home, and then drives back to the grocery store.
- 

$$\begin{aligned} X &= \{2, 3, 4, 5, 6, 7, 8, 9\} \\ Y &= \{0, 1\} \\ Z &= \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9\} \end{aligned}$$

21. Before 1990, telephone area codes in the United States were three-digit numbers of the form  $xyz$ . Shown above are sets  $X$ ,  $Y$ , and  $Z$  from which the digits  $x$ ,  $y$ , and  $z$ , respectively, were chosen. How many possible area codes were there?
- (A) 919 (B) 160 (C) 144 (D) 126 (E) 20

GO ON TO THE NEXT PAGE 

**MATHEMATICS LEVEL IC TEST — *Continued***

USE THIS SPACE FOR SCRATCHWORK.

22. In Figure 5,  $\triangle ABC$  is equilateral and  $EF \parallel DG \parallel AC$ . What is the perimeter of the shaded region?

(A) 4 (B) 6 (C) 8 (D) 9 (E) 10

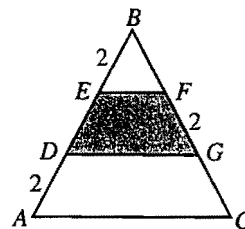


Figure 5

23. In Figure 6, two congruent circles are tangent to the number line at points 5 and 10, respectively, and tangent to rays from points 0 and 8, respectively. The circle at 10 is to be moved to the right along the number line, and the ray from point 8 is to be rotated so that it is tangent to the circle at its new position and  $\tan x^\circ = \tan y^\circ$ . How many units to the right must the circle be moved?

(A) 1 (B) 2 (C) 3 (D) 4 (E) 5

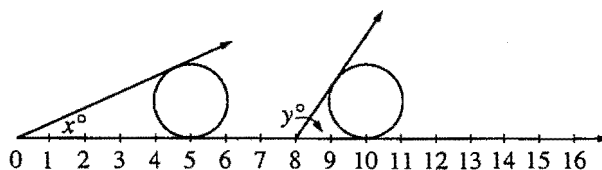


Figure 6

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**MATHEMATICS LEVEL IC TEST—Continued**

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24. A beacon that rotates in a complete circle at a constant rate throws a single beam of light that is seen every 9 seconds at a point four miles away. How many degrees does the beacon turn in 1 second?

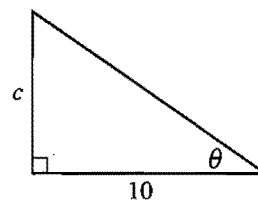
(A)  $6^\circ$  (B)  $20^\circ$  (C)  $40^\circ$  (D)  $54^\circ$  (E)  $60^\circ$

25. If  $i^2 = -1$  and if  $\left((i^2)^3\right)^k = 1$ , then the least positive integer value of  $k$  is

(A) 1 (B) 2 (C) 4 (D) 6 (E) 8

26. In Figure 7, if  $\theta = 44^\circ$ , what is the value of  $c$ ?

(A) 6.94 (B) 7.19 (C) 9.66 (D) 10.36 (E) 13.90



Note: Figure not drawn to scale.

Figure 7

**GO ON TO THE NEXT PAGE** 

**MATHEMATICS LEVEL IC TEST—Continued**

USE THIS SPACE FOR SCRATCHWORK.

27. The thickness of concrete that lines a swimming pool is a function of the depth of the pool. If  $d$  represents the depth, in feet, of the pool and  $t(d)$  represents the thickness, in inches, of the concrete, then  $t(d) = \frac{1}{12}(d^2 - 2d + 6)$ .

Of the following, which is the closest approximation to the thickness, in inches, of the concrete at a depth of 10 feet?

- (A) 0.5 (B) 1.5 (C) 6.2 (D) 7.2 (E) 10.5

28. Of the following, which has the greatest value?

- (A)  $10^{100}$   
(B)  $100^{10}$   
(C)  $(10 \cdot 10^{10})^{10}$   
(D)  $(100 \cdot 10)^{10}$   
(E) 10,000,000,000

29. In the  $xy$ -plane, the points  $O(0, 0)$ ,  $P(-6, 0)$ ,  $R(-7, 5)$ , and  $S(-1, 1)$  can be connected to form line segments. Which two segments have the same length?

- (A)  $OP$  and  $OR$   
(B)  $OP$  and  $OS$   
(C)  $OR$  and  $RS$   
(D)  $OS$  and  $PR$   
(E)  $PR$  and  $PS$

30. A total of 9 students took a test and their average (arithmetic mean) score was 86. If the average score for 4 of the students was 81, what was the average score for the remaining 5 students?

- (A) 87 (B) 88 (C) 89 (D) 90 (E) 91

**GO ON TO THE NEXT PAGE** 

# MATHEMATICS LEVEL IC TEST—Continued

USE THIS SPACE FOR SCRATCHWORK.

31. Line  $\ell$  has a positive slope and a negative  $y$ -intercept. Line  $m$  is parallel to  $\ell$  and has a positive  $y$ -intercept. The  $x$ -intercept of  $m$  must be

- (A) negative and greater than the  $x$ -intercept of  $\ell$
- (B) negative and less than the  $x$ -intercept of  $\ell$
- (C) zero
- (D) positive and greater than the  $x$ -intercept of  $\ell$
- (E) positive and less than the  $x$ -intercept of  $\ell$

32. Figure 8 is a right rectangular prism. Which of the given points is located in the plane determined by the vertices  $G$ ,  $H$ , and  $B$ ?

- (A)  $A$  (B)  $C$  (C)  $D$  (D)  $E$  (E)  $F$

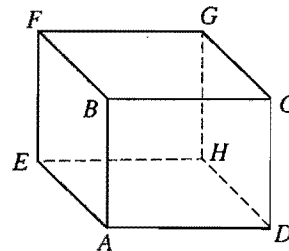


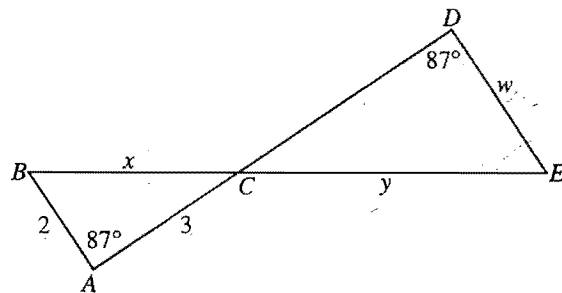
Figure 8

33. The sum of the two roots of a quadratic equation is 5 and their product is  $-6$ . Which of the following could be the equation?

- (A)  $x^2 - 6x + 5 = 0$
- (B)  $x^2 - 5x - 6 = 0$
- (C)  $x^2 - 5x + 6 = 0$
- (D)  $x^2 + 5x - 6 = 0$
- (E)  $x^2 + 6x + 5 = 0$

34. In Figure 9, triangles  $ABC$  and  $DEC$  are similar and  $w = 5$ . What is the value of  $\frac{x}{y}$ ?

- (A)  $\frac{2}{5}$  (B)  $\frac{3}{5}$  (C)  $\frac{2}{3}$  (D)  $\frac{3}{2}$  (E)  $\frac{5}{2}$



Note: Figure not drawn to scale.

Figure 9

35.  $(\sin^2 \theta + \cos^2 \theta - 3)^4 =$

- (A) 256 (B) 81 (C) 64 (D) 32 (E) 16

**GO ON TO THE NEXT PAGE**

MATHEMATICS LEVEL IC TEST — *Continued*

USE THIS SPACE FOR SCRATCHWORK.

36. In Figure 10, if  $\triangle ABC$  is reflected across line  $l$ , what will be the coordinates of the reflection of point  $A$  ?  
(A) (5, 1) (B) (8, 1) (C) (9, 1) (D) (11, 1) (E) (13, 1)

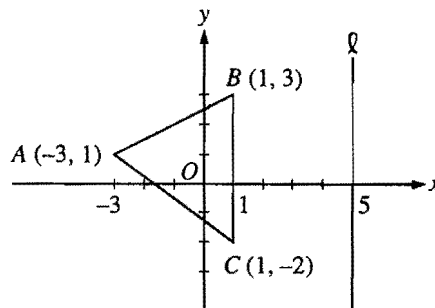


Figure 10

37. In Figure 11, the cube has edge of length 2. What is the distance from vertex  $A$  to the midpoint  $C$  of edge  $BD$  ?  
(A)  $\sqrt{7}$   
(B)  $2\sqrt{2}$   
(C) 3  
(D) 5  
(E)  $\sqrt{29}$

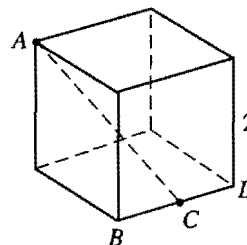


Figure 11

38. The line with equation  $y = 7$  is graphed on the same  $xy$ -plane as the circle with center (4, 5) and radius 3. What are the  $x$ -coordinates of the points of intersection of the line and the circle?  
(A) -5 and 5  
(B) -1 and 1  
(C) 1.35 and 6.65  
(D) 1.76 and 6.24  
(E) 2 and 6

GO ON TO THE NEXT PAGE

MATHEMATICS LEVEL IC TEST — *Continued*

USE THIS SPACE FOR SCRATCHWORK.

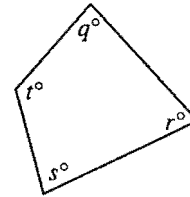


Figure 12

39. In Figure 12, if  $60 < q + s < 160$ , which of the following describes all possible values of  $t + r$ ?

- (A)  $0 < t + r < 60$
- (B)  $60 < t + r < 120$
- (C)  $120 < t + r < 200$
- (D)  $200 < t + r < 300$
- (E)  $420 < t + r < 520$

40. At the end of 1990, the population of a certain town was 6,250. If the population increases at the rate of 3.5 percent each year, what will the population of the town be at the end of 2005?

- (A) 9,530
- (B) 9,740
- (C) 9,950
- (D) 10,260
- (E) 10,470

41. If points  $R$ ,  $S$ , and  $T$  lie on a circle and if the center of the circle lies on segment  $RT$ , then  $\triangle RST$  must be

- (A) acute
- (B) obtuse
- (C) right
- (D) isosceles
- (E) equilateral

42. The function  $f$ , where  $f(x) = (1 + x)^2$ , is defined for  $-2 \leq x \leq 2$ . What is the range of  $f$ ?

- (A)  $0 \leq f(x) \leq 4$
- (B)  $0 \leq f(x) \leq 9$
- (C)  $1 \leq f(x) \leq 4$
- (D)  $1 \leq f(x) \leq 5$
- (E)  $1 \leq f(x) \leq 9$

GO ON TO THE NEXT PAGE 

MATHEMATICS LEVEL IC TEST — *Continued*

USE THIS SPACE FOR SCRATCHWORK.

43. In the right circular cylinder shown in Figure 13,  $P$  and  $O$  are the centers of the bases and segment  $AB$  is a diameter of one of the bases. What is the perimeter of  $\triangle ABO$  if the height of the cylinder is 5 and the radius of the base is 3?

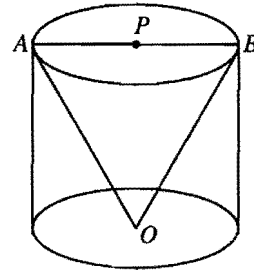


Figure 13

44. Sequential arrangements of squares are formed according to a pattern. Each arrangement after the first one is generated by adding a row of squares to the bottom of the previous arrangement, as shown in Figure 14. If this pattern continues, which of the following gives the number of squares in the  $n$ th arrangement?

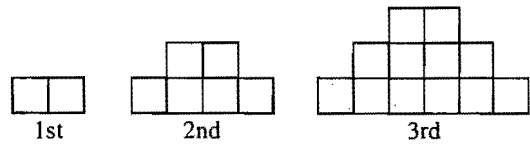


Figure 14

- (A)  $2n^2$   
 (B)  $2(2n - 1)$   
 (C)  $n(n - 1)$   
 (D)  $\frac{1}{2}n(n + 1)$   
 (E)  $n(n + 1)$
45. If  $f(x) = x^3 + 1$  and if  $f^{-1}$  is the inverse function of  $f$ , what is  $f^{-1}(4)$  ?  
 (A) 0.02 (B) 1.44 (C) 1.71 (D) 27 (E) 65

GO ON TO THE NEXT PAGE

MATHEMATICS LEVEL IC TEST — *Continued*

USE THIS SPACE FOR SCRATCHWORK.

46. Two positive integers  $j$  and  $k$  satisfy the relation  $jRk$  if and only if  $j = k^2 + 1$ . If  $m$ ,  $n$ , and  $p$  satisfy the relations  $mRn$  and  $nRp$ , what is the value of  $m$  in terms of  $p$ ?
- (A)  $p^2 + 1$   
(B)  $p^2 + 2$   
(C)  $(p^2 + 1)^2$   
(D)  $(p^2 + 1)^2 + 1$   
(E)  $(p^2 + 2)^2$

47. The area of parallelogram  $ABCD$  in Figure 15 is  
(A) 12 (B)  $6\sqrt{3}$  (C) 20 (D)  $12\sqrt{3}$  (E) 24

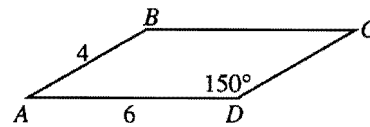


Figure 15

48. In Figure 16, the area of the shaded region bounded by the graph of the parabola  $y = f(x)$  and the  $x$ -axis is 3. What is the area of the region bounded by the graph of  $y = f(x - 2)$  and the  $x$ -axis?
- (A) 1 (B)  $\frac{3}{2}$  (C) 2 (D) 3 (E) 6

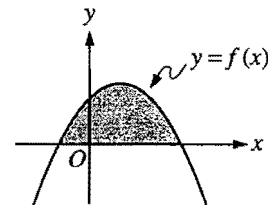


Figure 16

GO ON TO THE NEXT PAGE 

**MATHEMATICS LEVEL IC TEST—Continued**

USE THIS SPACE FOR SCRATCHWORK.

49. Marigolds are to be planted inside a circular flower garden so that there are 4 marigolds per square foot. The circumference of the garden is 20 feet. If marigolds are available only in packs of 6, how many packs of 6 flowers are needed?
- (A) 6 (B) 13 (C) 14 (D) 20 (E) 22
50. A solution is made by mixing concentrate with water. How many liters of concentrate should be mixed with 2 liters of water so that 32 percent of the solution is concentrate?
- (A) 0.63  
(B) 0.64  
(C) 0.68  
(D) 0.94  
(E) 1.06

**STOP**

IF YOU FINISH BEFORE TIME IS CALLED, YOU MAY CHECK YOUR WORK ON THIS TEST ONLY.  
DO NOT TURN TO ANY OTHER TEST IN THIS BOOK.



## How to Score the Mathematics Level IC Subject Test

When you take the Mathematics Level IC Subject Test, your answer sheet will be “read” by a scanning machine that will record your responses to each question. Then a computer will compare your answers with the correct answers and produce your raw score. You get one point for each correct answer. For each wrong answer, you lose one-fourth of a point. Questions you omit (and any for which you mark more than one answer) are not counted. This raw score is converted to a College Board scaled score that is reported to you and to the colleges you specify.

### Worksheet 1. Finding Your Raw Test Score

**STEP 1:** Table A lists the correct answers for all the questions on the SAT II: Mathematics Level IC Subject Test that is reproduced in this book. It also serves as a worksheet for you to calculate your raw score.

- Compare your answers with those given in the table.
- Put a check in the column marked “Right” if your answer is correct.
- Put a check in the column marked “Wrong” if your answer is incorrect.
- Leave both columns blank if you omitted the question.

**STEP 2:** Count the number of right answers.

Enter the total here: \_\_\_\_\_

**STEP 3:** Count the number of wrong answers.

Enter the total here: \_\_\_\_\_

**STEP 4:** Multiply the number of wrong answers by .250.

Enter the product here: \_\_\_\_\_

**STEP 5:** Subtract the result obtained in Step 4 from the total you obtained in Step 2.

Enter the result here: \_\_\_\_\_

**STEP 6:** Round the number obtained in Step 5 to the nearest whole number.

Enter the result here: \_\_\_\_\_

***The number you obtained in Step 6 is your raw score.***

**TABLE A****Answers to the SAT II: Mathematics Level IC Subject Test, Form 3TBC2,  
and Percentage of Students Answering Each Question Correctly**

Question Number	Correct Answer	Right	Wrong	Percentage of Students Answering the Question Correctly*	Question Number	Correct Answer	Right	Wrong	Percentage of Students Answering the Question Correctly*
1	E			92	26	C			68
2	A			76	27	D			72
3	A			93	28	C			52
4	E			91	29	E			57
5	C			65	30	D			53
6	D			77	31	B			58
7	E			86	32	A			51
8	B			77	33	B			24
9	A			88	34	A			51
10	D			80	35	E			49
11	D			78	36	E			38
12	A			75	37	C			34
13	A			80	38	D			25
14	B			75	39	D			37
15	B			86	40	E			25
16	A			71	41	C			25
17	E			71	42	B			14
18	E			65	43	E			51
19	B			80	44	E			42
20	A			72	45	B			28
21	B			68	46	D			32
22	E			66	47	A			19
23	C			60	48	D			19
24	C			72	49	E			22
25	B			63	50	D			27

\* These percentages are based on an analysis of the answer sheets of a random sample of 9,999 students who took the original form of this test in December 1997, and whose mean score was 564. They may be used as an indication of the relative difficulty of a particular question. Each percentage may also be used to predict the likelihood that a typical SAT II: Mathematics Level IC Subject Test candidate will answer correctly that question on this edition of the test.