



SECTION 2

Time — 25 minutes

20 Questions

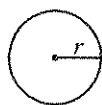
Turn to Section 2 (page 4) of your answer sheet to answer the questions in this section.

Directions: For this section, solve each problem and decide which is the best of the choices given. Fill in the corresponding circle on the answer sheet. You may use any available space for scratchwork.

Notes

- The use of a calculator is permitted.
- All numbers used are real numbers.
- 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 the figure is not drawn to scale. All figures lie in a plane unless otherwise indicated.
- 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.

Reference Information

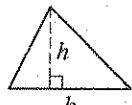


$$A = \pi r^2$$

$$C = 2\pi r$$



$$A = \ell w$$



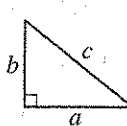
$$A = \frac{1}{2}bh$$



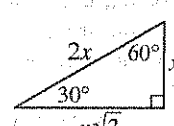
$$V = \ell wh$$



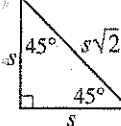
$$V = \pi r^2 h$$



$$c^2 = a^2 + b^2$$



Special Right Triangles



The number of degrees of arc in a circle is 360.

The sum of the measures in degrees of the angles of a triangle is 180.

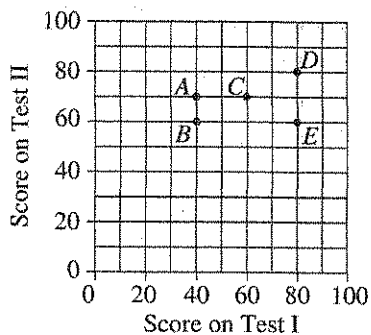
- When Ms. Yun arrived at the grocery store, there were 5 packages of hot dog rolls left on the shelf. One package contained 12 rolls, and each of the others contained 8 rolls. If Ms. Yun bought all 5 packages, how many hot dog rolls did she purchase at the store?
 - 32
 - 36
 - 44
 - 48
 - 52
- A, B, and C are points on a line in that order. If $AB = 30$ and BC is 20 more than AB , what does AC equal?
 - 50
 - 60
 - 70
 - 80
 - 90
- If $x + 3 = a$, then $2x + 6 =$
 - $a + 3$
 - $a + 6$
 - $2a$
 - $2a + 3$
 - $2a + 6$

GO ON TO THE NEXT PAGE



Questions 4-5 refer to the following graph.

TEST SCORES OF FIVE STUDENTS

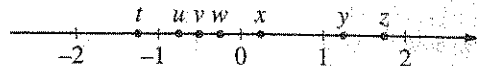


4. For which student was the change in scores from test I to test II the greatest?

(A) A
(B) B
(C) C
(D) D
(E) E

5. What was the average (arithmetic mean) of the scores of the 5 students on test II?

(A) 60
(B) 65
(C) 68
(D) 70
(E) 72



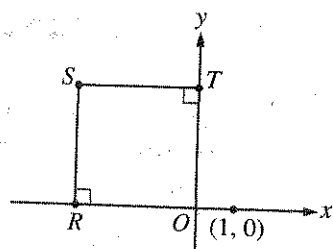
6. On the number line above, t , u , v , w , x , y , and z are coordinates of the indicated points. Which of the following is closest in value to $|u + v|$?

(A) t
(B) w
(C) x
(D) y
(E) z

7. If $x = \frac{1}{2}$, what is the value of $\frac{1}{x} + \frac{1}{x-1}$?

(A) -4
(B) 0
(C) 1
(D) 2
(E) 3

GO ON TO THE NEXT PAGE



8. In the figure above, $RS = ST$ and the coordinates of S are $(k, 3)$. What is the value of k ?

- (A) -3
 (B) $-\sqrt{3}$
 (C) 0
 (D) $\sqrt{3}$
 (E) 3

x	0	1	2	3
$f(x)$	1	2	5	10

9. The table above gives values of the quadratic function f for selected values of x . Which of the following defines f ?

- (A) $f(x) = x^2 + 1$
 (B) $f(x) = x^2 + 2$
 (C) $f(x) = 2x^2 - 2$
 (D) $f(x) = 2x^2 - 1$
 (E) $f(x) = 2x^2 + 1$

10. How old was a person exactly 1 year ago if exactly x years ago the person was y years old?

- (A) $y - 1$
 (B) $y - x - 1$
 (C) $x - y - 1$
 (D) $y + x + 1$
 (E) $y + x - 1$

Z W Y X

11. The sequence above may be changed in either of two ways. Either two adjacent letters may be interchanged or the entire sequence may be reversed. What is the least number of such changes needed to put the letters into alphabetical order from left to right?

- (A) 2
 (B) 3
 (C) 4
 (D) 5
 (E) 6

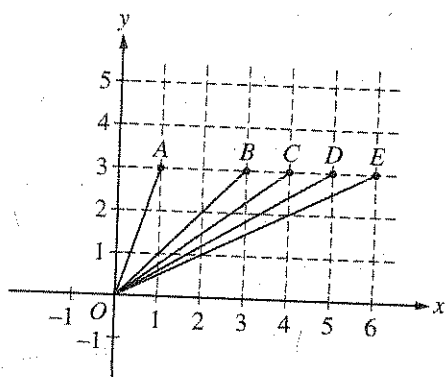
12. How many cubical blocks, each with edges of length 4 centimeters, are needed to fill a rectangular box that has inside dimensions 20 centimeters by 24 centimeters by 32 centimeters?

- (A) 38
 (B) 96
 (C) 192
 (D) 240
 (E) 384

GO ON TO THE NEXT PAGE

13. If $0 < n < 1$, which of the following gives the correct ordering of \sqrt{n} , n , and n^2 ?

- (A) $\sqrt{n} < n < n^2$
 (B) $\sqrt{n} < n^2 < n$
 (C) $n < \sqrt{n} < n^2$
 (D) $n < n^2 < \sqrt{n}$
 (E) $n^2 < n < \sqrt{n}$

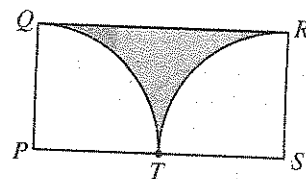


14. In the figure above, what is the median of the slopes of \overline{OA} , \overline{OB} , \overline{OC} , \overline{OD} , and \overline{OE} ?

- (A) $\frac{4}{3}$
 (B) 1
 (C) $\frac{3}{4}$
 (D) $\frac{3}{5}$
 (E) $\frac{1}{2}$

15. When it is noon eastern standard time (EST) in New York City, it is 9:00 A.M. Pacific standard time (PST) in San Francisco. A plane took off from New York City at noon EST and arrived in San Francisco at P.M. PST on the same day. If a second plane left San Francisco at noon PST and took exactly the same amount of time for the trip, what was the plane's arrival time (EST) in New York City?

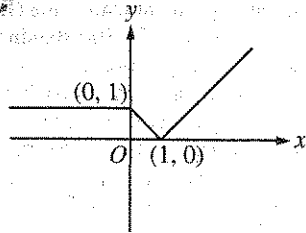
- (A) 10:00 P.M. EST
 (B) 9:00 P.M. EST
 (C) 7:00 P.M. EST
 (D) 6:00 P.M. EST
 (E) 4:00 P.M. EST



16. In rectangle $PQRS$ above, arcs QT and RT are quarter circles with centers at P and S , respectively. If the radius of each quarter circle is 1, what is the area of the shaded region?

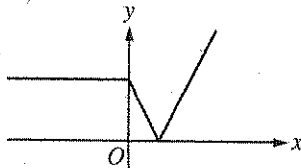
- (A) $1 - \frac{\pi}{4}$
 (B) $2 - \frac{\pi}{2}$
 (C) $2 - \frac{\pi}{4}$
 (D) $\frac{\pi}{4}$
 (E) $\frac{2}{3}$

GO ON TO THE NEXT PAGE

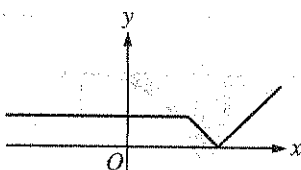


17. The graph of $y = f(x)$ is shown above. Which of the following could be the graph of $y = f(x + 2)$?

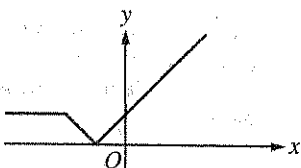
(A)



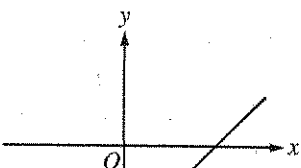
(B)



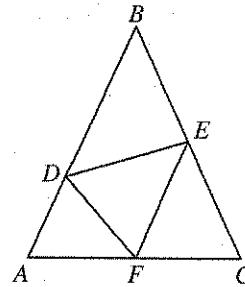
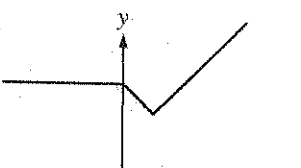
(C)



(D)



(E)



Note: Figure not drawn to scale.

18. In the figure above, $AB = BC$ and $DE = EF = DF$. If the measure of $\angle ABC$ is 30° and the measure of $\angle BDE$ is 50° , what is the measure of $\angle DFA$?

- (A) 30°
- (B) 35°
- (C) 40°
- (D) 45°
- (E) 50°

DO NOT WRITE IN THESE SPACES

GO ON TO THE NEXT PAGE

19. If a , b , c , and f are four nonzero numbers, then all of the following proportions are equivalent EXCEPT

- (A) $\frac{a}{f} = \frac{b}{c}$
(B) $\frac{f}{c} = \frac{b}{a}$
(C) $\frac{c}{a} = \frac{f}{b}$
(D) $\frac{a}{c} = \frac{b}{f}$
(E) $\frac{af}{bc} = \frac{1}{1}$

20. For all numbers x and y , let the operation \square be defined by $x \square y = xy - y$. If a and b are positive integers, which of the following can be equal to zero

- I. $a \square b$
II. $(a + b) \square b$
III. $a \square (a + b)$

- (A) I only
(B) II only
(C) III only
(D) I and II
(E) I and III

STOP

If you finish before time is called, you may check your work on this section only.
Do not turn to any other section in the test.



SECTION 4

Time — 25 minutes

18 Questions

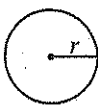
Turn to Section 4 (page 5) of your answer sheet to answer the questions in this section.

Directions: This section contains two types of questions. You have 25 minutes to complete both types. For questions 1-8, solve each problem and decide which is the best of the choices given. Fill in the corresponding circle on the answer sheet. You may use any available space for scratchwork.

Notes

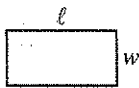
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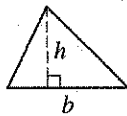


$$A = \pi r^2$$

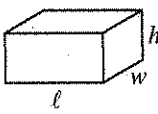
$$C = 2\pi r$$



$$A = \ell w$$



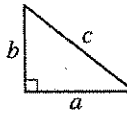
$$A = \frac{1}{2}bh$$



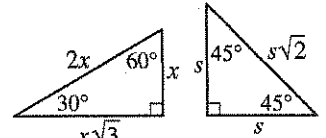
$$V = \ell wh$$



$$V = \pi r^2 h$$



$$c^2 = a^2 + b^2$$



Special Right Triangles

The number of degrees of arc in a circle is 360.

The sum of the measures in degrees of the angles of a triangle is 180.

1. If $x - y = 8$, $y = 3z$, and $z = 2$, what is the value of x ?

- (A) -14
(B) -2
(C) 2
(D) 3
(E) 14

2. Todd is older than Marta but younger than Susan. If t , m , and s represent the ages, in years, of Todd, Marta, and Susan, respectively, which of the following is true?

- (A) $m < t < s$
(B) $s < m < t$
(C) $s < t < m$
(D) $t < m < s$
(E) $t < s < m$

GO ON TO THE NEXT PAGE

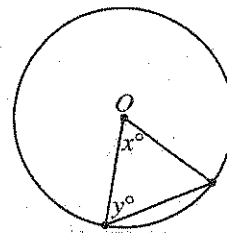


3. If the areas of two regions are equal and the sum of the areas of the regions is 5, what is the average (arithmetic mean) of the areas of the two regions?

(A) 0
 (B) $\frac{5}{2}$
 (C) $\frac{5}{4}$
 (D) 5
 (E) 10

4. Let S be the set of all integers that can be written as $n^2 + 1$, where n is a nonzero integer. Which of the following integers is in S ?

(A) 16
 (B) 28
 (C) 35
 (D) 39
 (E) 50



Note: Figure not drawn to scale.

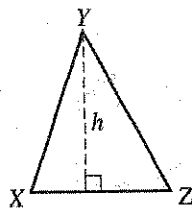
5. In the figure above, point O is the center of the circle. If $x = 40$, what is the value of y ?

(A) 40
 (B) 50
 (C) 60
 (D) 70
 (E) 80

6. A "simple square" is any integer greater than 1 that has only three positive integer factors—itsself, its square root, and 1. Which of the following is a simple square?

(A) 121
 (B) 100
 (C) 81
 (D) 64
 (E) 33

GO ON TO THE NEXT PAGE



7. In $\triangle XYZ$ above, XZ is $\frac{6}{7}$ of h , the length of the altitude. What is the area of $\triangle XYZ$ in terms of h ?

- (A) $\frac{h^2}{3}$
 (B) $\frac{3h^2}{7}$
 (C) $\frac{3h}{7}$
 (D) $\frac{6h^2}{7}$
 (E) $\frac{12h^2}{7}$

8. If a and b are positive integers and $(a^{\frac{1}{2}} b^{\frac{1}{3}})^6 = 432$, what is the value of ab ?

- (A) 6
 (B) 12
 (C) 18
 (D) 24
 (E) 36



Directions: For Student-Produced Response questions 9-18, use the grids at the bottom of the answer sheet page on which you have answered questions 1-8.

Each of the remaining 10 questions requires you to solve the problem and enter your answer by marking the circles in the special grid, as shown in the examples below. You may use any available space for scratchwork.

Write answer in boxes.

Answer: $\frac{7}{12}$

Fraction line

Grid in result.

	7	/	1	2
	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1	0	0	0	0
2	1	1	1	1
3	2	2	2	2
4	3	3	3	3
5	4	4	4	4
6	5	5	5	5
7	6	6	6	6
8	7	7	7	7
9	8	8	8	8
	9	9	9	9

Answer: 2.5

Decimal point

	2	.	5	
	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1	0	0	0	0
2	1	1	1	1
3	2	2	2	2
4	3	3	3	3
5	4	4	4	4
6	5	5	5	5
7	6	6	6	6
8	7	7	7	7
9	8	8	8	8
	9	9	9	9

Answer: 201

Either position is correct.

	2	0	1	
	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1	0	0	0	0
2	1	1	1	1
3	2	2	2	2
4	3	3	3	3
5	4	4	4	4
6	5	5	5	5
7	6	6	6	6
8	7	7	7	7
9	8	8	8	8
	9	9	9	9

Note: You may start your answers in any column, space permitting. Columns not needed should be left blank.

- Mark no more than one circle in any column.
- Because the answer sheet will be machine-scored, you will receive credit only if the circles are filled in correctly.
- Although not required, it is suggested that you write your answer in the boxes at the top of the columns to help you fill in the circles accurately.
- Some problems may have more than one correct answer. In such cases, grid only one answer.
- No question has a negative answer.
- **Mixed numbers** such as $3\frac{1}{2}$ must be gridded as 3.5 or $7/2$. (If $\frac{31}{2}$ is gridded, it will be interpreted as $\frac{31}{2}$, not $3\frac{1}{2}$.)

- **Decimal Answers:** If you obtain a decimal answer with more digits than the grid can accommodate, it may be either rounded or truncated, but it must fill the entire grid. For example, if you obtain an answer such as 0.6666..., you should record your result as .666 or .667. A less accurate value such as .66 or .67 will be scored as incorrect.

Acceptable ways to grid $\frac{2}{3}$ are:

	2	/	3	
	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1	0	0	0	0
2	1	1	1	1
3	2	2	2	2
4	3	3	3	3
5	4	4	4	4
6	5	5	5	5
	6	6	6	6

	.	6	6	6
	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1	0	0	0	0
2	1	1	1	1
3	2	2	2	2
4	3	3	3	3
5	4	4	4	4
6	5	5	5	5
	6	6	6	6

	.	6	6	7
	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1	0	0	0	0
2	1	1	1	1
3	2	2	2	2
4	3	3	3	3
5	4	4	4	4
6	5	5	5	5
	6	6	6	6

9. What is the greatest three-digit integer that has a factor of 10?

10. A recipe for chili for 20 people requires 4 pounds of beans. At this rate, how many pounds of beans are required to make chili for 150 people?

GO ON TO THE NEXT PAGE



11. When the positive even integer n is increased by 50 percent of itself, the result is between 10 and 20. What is one possible value of n ?

13. A school ordered \$600 worth of lightbulbs. Some of the lightbulbs cost \$1 each and the others cost \$2 each. If twice as many \$1 bulbs as \$2 bulbs were ordered, how many lightbulbs were ordered altogether?

12. The perimeter of a rectangular plot of land is 250 meters. If the length of one side of the plot is 40 meters, what is the area of the plot, in square meters?

14. If $4(x + y)(x - y) = 40$ and $x - y = 20$, what is the value of $x + y$?

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15. In a rectangular coordinate system, the center of a circle has coordinates $(5, 12)$, and the circle touches the x -axis at one point only. What is the radius of the circle?

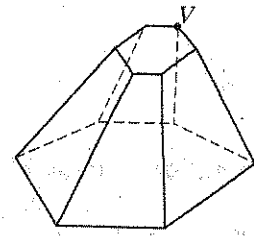
BRIDGETON VOTER REGISTRATION DATA

	Voting-Age Population	Number of Registered Voters
Men	1,200	1,000
Women	1,300	1,200

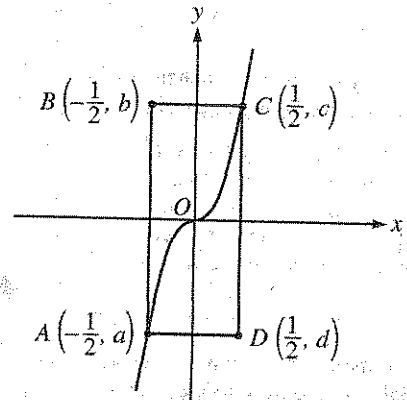
16. The table above gives the voter registration data for the town of Bridgeton at the time of a recent election. In the election, 40 percent of the voting-age population actually voted. If the turnout for an election is defined to be the fraction

$$\frac{\text{number who actually voted}}{\text{number of registered voters}},$$

what was the turnout for this election?



17. The three-dimensional figure above has two parallel bases and 18 edges. Line segments are to be drawn connecting vertex V with each of the other 11 vertices in the figure. How many of these segments will not lie on an edge of the figure?



Note: Figure not drawn to scale.

18. In the figure above, $ABCD$ is a rectangle. Points A and C lie on the graph of $y = px^3$, where p is a constant. If the area of $ABCD$ is 4, what is the value of p ?

STOP

If you finish before time is called, you may check your work on this section only.
Do not turn to any other section in the test.



SECTION 8

Time — 20 minutes

16 Questions

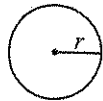
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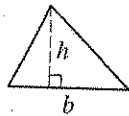


$$A = \pi r^2$$

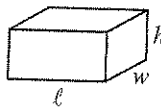
$$C = 2\pi r$$



$$A = \ell w$$



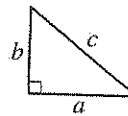
$$A = \frac{1}{2}bh$$



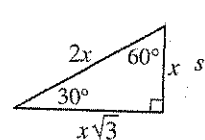
$$V = \ell wh$$



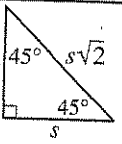
$$V = \pi r^2 h$$



$$c^2 = a^2 + b^2$$



Special Right Triangles



The number of degrees of arc in a circle is 360.

The sum of the measures in degrees of the angles of a triangle is 180.

1. If $3(n - 4) = 18$, what is the value of n ?

- (A) $\frac{14}{3}$
 (B) $\frac{22}{3}$
 (C) 6
 (D) 10
 (E) 22

2. For a class ring, each senior can choose from 4 types of stones and 3 types of metals. How many combinations of a stone and a metal are there?

- (A) 7
 (B) 8
 (C) 10
 (D) 12
 (E) 16

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The sum of $3a$ and the square root of b is equal to the square of the sum of a and b .

3. Which of the following is an expression for the statement above?

- (A) $3a + b^2 = \sqrt{a + b}$
 (B) $3a + \sqrt{b} = (a + b)^2$
 (C) $3a + \sqrt{b} = a^2 + b^2$
 (D) $\sqrt{3a + b} = a^2 + b^2$
 (E) $\sqrt{3a} + \sqrt{b} = (a + b)^2$

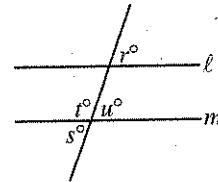
4. Kerry has a cordless telephone receiver that can operate within a range of 1,000 feet from the telephone's base. Kerry takes the receiver from the base and walks 800 feet due north. From that point she walks due east and stops at the maximum range of the receiver. In which of the following directions can Kerry walk and still be within the range of the receiver?

- I. Due north
 II. Due south
 III. Due west

- (A) II only
 (B) III only
 (C) I and II
 (D) I and III
 (E) II and III

5. If $\frac{x}{4} = \frac{2x}{a}$ and $x \neq 0$, what is the value of a ?

- (A) 8
 (B) 4
 (C) 2
 (D) $\frac{1}{2}$
 (E) $\frac{1}{4}$



Note: Figure not drawn to scale.

6. In the figure above, $l \parallel m$ and $r = 50$. What is the value of $s + t + u$?

- (A) 230
 (B) 240
 (C) 250
 (D) 270
 (E) 310

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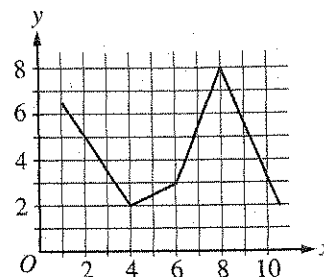
7. In the xy -coordinate plane, line ℓ is perpendicular to the y -axis and passes through the point $(5, -3)$. Which of the following is an equation of line ℓ ?
- (A) $x = 0$
(B) $x = 5$
(C) $y = -3$
(D) $y + 3 = x + 5$
(E) $y - 3 = x + 5$
-
8. The total daily profit p , in dollars, from producing and selling x units of a certain product is given by the function $p(x) = 17x - (10x + b)$, where b is a constant. If 300 units were produced and sold yesterday for a total profit of \$1,900, what is the value of b ?
- (A) -200
(B) -100
(C) 0
(D) 100
(E) 200
-
9. The number that results when an integer is multiplied by itself CANNOT end in which of the following digits?
- (A) 1
(B) 4
(C) 5
(D) 6
(E) 8
-
10. A bag contains only red marbles, blue marbles, and yellow marbles. The probability of randomly selecting a red marble from this bag is $\frac{1}{4}$, and the probability of randomly selecting a blue marble is $\frac{1}{6}$. Which of the following could be the total number of marbles in the bag?
- (A) 10
(B) 12
(C) 18
(D) 20
(E) 30



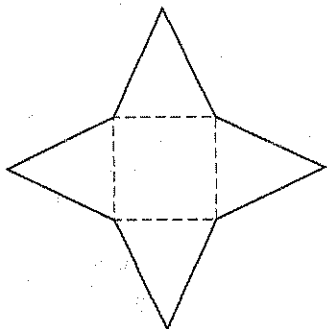
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11. When the sum of a list of prices is divided by the average (arithmetic mean) of the prices, the result is k . What does k represent?
- (A) The sum of the prices
 (B) Half of the sum of the prices
 (C) The average of the prices
 (D) The number of prices
 (E) Half of the number of prices



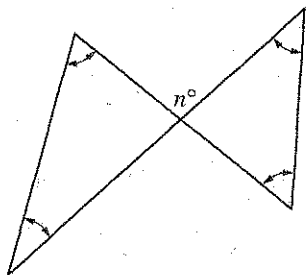
13. The graph of $y = g(x)$ is shown above. If $g(2) = k$, which of the following could be the value of $g(k)$?
- (A) 2
 (B) 2.5
 (C) 3
 (D) 3.5
 (E) 5



12. If the area of the square in the figure above is 81 and the perimeter of each of the 4 triangles is 30, what is the perimeter of the figure outlined by the solid line?
- (A) 36
 (B) 72
 (C) 80
 (D) 84
 (E) 120

14. If $0 \leq x \leq 8$ and $-1 \leq y \leq 3$, which of the following gives the set of all possible values of xy ?
- (A) $xy = 4$
 (B) $0 \leq xy \leq 24$
 (C) $-1 \leq xy \leq 11$
 (D) $-1 \leq xy \leq 24$
 (E) $-8 \leq xy \leq 24$

GO ON TO THE NEXT PAGE



15. In the figure above, what is the sum, in terms of n , of the degree measures of the four angles marked with arrows?

- (A) n
 (B) $2n$
 (C) $180 - n$
 (D) $360 - n$
 (E) $360 - 2n$

16. After the first term, each term in a sequence is 3 greater than $\frac{1}{3}$ of the preceding term. If t is the first term of the sequence and $t \neq 0$, what is the ratio of the second term to the first term?

- (A) $\frac{t+9}{3}$
 (B) $\frac{t+3}{3}$
 (C) $\frac{t+9}{3t}$
 (D) $\frac{t+3}{3t}$
 (E) $\frac{9-2t}{3}$

STOP

If you finish before time is called, you may check your work on this section only.
 Do not turn to any other section in the test.

SAT Practice Test #4 Answer Key

CRITICAL READING

Section 3	Section 7	Section 9
Multiple-Choice Questions	Multiple-Choice Questions	Multiple-Choice Questions
COR. ANS.	COR. ANS.	COR. ANS.
DIFF. LEV.	DIFF. LEV.	DIFF. LEV.
1. D M	1. D E	1. B E
2. A M	2. E E	2. A E
3. B M	3. B M	3. E M
4. A M	4. C M	4. C M
5. A H	5. E M	5. E H
6. C M	6. B M	6. E H
7. D H	7. C M	7. D E
8. A H	8. A M	8. E M
9. D H	9. C E	9. D M
10. B E	10. D M	10. D M
11. C M	11. B M	11. B M
12. A E	12. D E	12. C E
13. D M	13. E M	13. A M
14. C M	14. C M	14. E M
15. D E	15. D M	15. C M
16. A M	16. D H	16. B M
17. B H	17. B M	17. E M
18. E M	18. C M	18. A M
19. D M	19. B H	19. D M
20. D M	20. B M	
21. D M	21. D H	
22. A M	22. E H	
23. E E	23. A M	
24. B M	24. E M	

no. correct	no. correct	no. correct
no. incorrect	no. incorrect	no. incorrect

MATH

Section 2	Section 4	Section 8
Multiple-Choice Questions	Multiple-Choice Questions	Multiple-Choice Questions
COR. ANS.	COR. ANS.	COR. ANS.
DIFF. LEV.	DIFF. LEV.	DIFF. LEV.
1. C E	1. E E	1. D E
2. D E	2. A E	2. D E
3. C E	3. B E	3. B E
4. A E	4. E M	4. E E
5. C E	5. D M	5. A E
6. D M	6. A M	6. A E
7. B E	7. B M	7. C M
8. A M	8. B H	8. E M
9. A M		9. E M
10. E M		10. B M
11. B M		11. D M
12. D M		12. D M
13. E M		13. B M
14. C M		14. E H
15. A M		15. B H
16. B M		16. C H
17. C M		
18. B H		
19. A H		
20. E H		

no. correct	no. correct	no. correct
no. incorrect	no. incorrect	no. incorrect

Section 4 Student-Produced Response Questions

	COR. ANS.	DIFF. LEV.
9.	990	M
10.	30	E
11.	8, 10, 12	M
12.	3400	M
13.	450	M
14.	1/2, .5	M
15.	12	M
16.	5/11, .454, .455	M
17.	8	H
18.	16	H

no. correct
(9-18)

NOTE: Difficulty levels are E (easy), M (medium), and H (hard).