



# SAT

Preparation Booklet™  
2007-08

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## SECTION 2

Time — 25 minutes

18 Questions

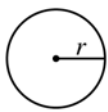
Turn to Section 2 (page 4) of your answer sheet to answer the questions in this section.

**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

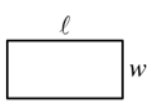
- The use of a calculator is permitted.
- All numbers used are real numbers.
- Figures that accompany problems in this test are intended to provide information useful in solving the problems. They are drawn as accurately as possible EXCEPT when it is stated in a specific problem that the figure is not 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



$$A = \pi r^2$$

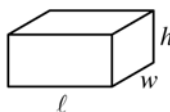
$$C = 2\pi r$$



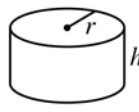
$$A = \ell w$$



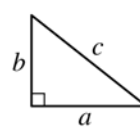
$$A = \frac{1}{2}bh$$



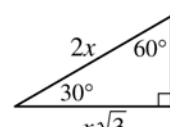
$$V = \ell wh$$



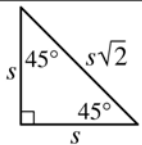
$$V = \pi r^2 h$$



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



Special Right Triangles

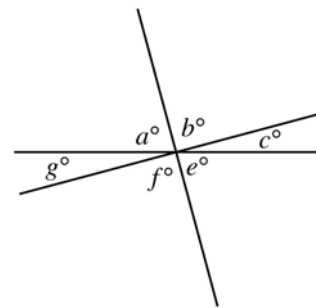


The number of degrees of arc in a circle is 360.

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

1. If  $4(t + u) + 3 = 19$ , then  $t + u =$

- (A) 3  
(B) 4  
(C) 5  
(D) 6  
(E) 7



Note: Figure not drawn to scale.

2. In the figure above, three lines intersect at a point. If  $f = 85$  and  $c = 25$ , what is the value of  $a$ ?

- (A) 60  
(B) 65  
(C) 70  
(D) 75  
(E) 85

GO ON TO THE NEXT PAGE



3. If Marisa drove  $n$  miles in  $t$  hours, which of the following represents her average speed, in miles per hour?

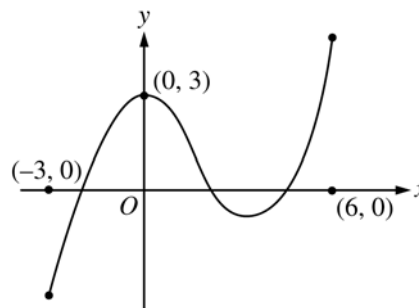
- (A)  $\frac{n}{t}$   
 (B)  $\frac{t}{n}$   
 (C)  $\frac{1}{nt}$   
 (D)  $nt$   
 (E)  $n^2t$

4. If  $a$  is an odd integer and  $b$  is an even integer, which of the following is an odd integer?

- (A)  $3b$   
 (B)  $a + 3$   
 (C)  $2(a + b)$   
 (D)  $a + 2b$   
 (E)  $2a + b$

5. In the coordinate plane, the points  $F(-2, 1)$ ,  $G(1, 4)$ , and  $H(4, 1)$  lie on a circle with center  $P$ . What are the coordinates of point  $P$ ?

- (A)  $(0, 0)$   
 (B)  $(1, 1)$   
 (C)  $(1, 2)$   
 (D)  $(1, -2)$   
 (E)  $(2.5, 2.5)$



6. The graph of  $y = f(x)$  is shown above. If  $-3 \leq x \leq 6$ , for how many values of  $x$  does  $f(x) = 2$ ?

- (A) None  
 (B) One  
 (C) Two  
 (D) Three  
 (E) More than three

7. If the average (arithmetic mean) of  $t$  and  $t + 2$  is  $x$  and if the average of  $t$  and  $t - 2$  is  $y$ , what is the average of  $x$  and  $y$ ?

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

8. For all numbers  $x$  and  $y$ , let  $x \triangle y$  be defined as  $x \triangle y = x^2 + xy + y^2$ . What is the value of  $(3 \triangle 1) \triangle 1$ ?

- (A) 5  
 (B) 13  
 (C) 27  
 (D) 170  
 (E) 183

GO ON TO THE NEXT PAGE



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

	7	/	1	2	
	●	/	/		
	○	○	○	○	
	0	0	0	0	
1	1	●	1		
2	2	2	●		
3	3	3	3		
4	4	4	4		
5	5	5	5		
6	6	6	6		
●	7	7	7		
8	8	8	8		
9	9	9	9		

← Fraction line

Grid in result. →

Answer: 2.5

	2	.	5	
	/	/		
	○	○	●	○
	0	0	0	0
1	1	1	1	1
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	

← Decimal point

Answer: 201

Either position is correct.

	2	0	1	
	/	/		
	○	○	○	○
	0	●	0	
1	1	1	●	
2	●	2	2	
3	3	3	3	
4	4	4	4	

	2	0	1	
	/	/		
	○	○	○	○
	0	●	0	0
1	1	1	●	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4

**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	
	/	●		
	○	○	○	○
	0	0	0	0
1	1	1	1	1
2	●	2	2	
3	3	3	●	
4	4	4	4	
5	5	5	5	
6	6	6	6	

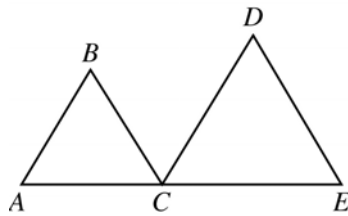
	.	6	6	6	
	○	/	/		
	○	○	○	○	○
	0	0	0	0	
1	1	1	1	1	
2	2	2	2	2	
3	3	3	3	3	
4	4	4	4	4	
5	5	5	5	5	
6	●	●	●		

	.	6	6	7	
	○	/	/		
	○	○	○	○	○
	0	0	0	0	
1	1	1	1	1	
2	2	2	2	2	
3	3	3	3	3	
4	4	4	4	4	
5	5	5	5	5	
6	●	●	●	○	

9. Morgan's plant grew from 42 centimeters to 57 centimeters in a year. Linda's plant, which was 59 centimeters at the beginning of the year, grew twice as many centimeters as Morgan's plant did during the same year. How tall, in centimeters, was Linda's plant at the end of the year?

10. Since the beginning of 1990, the number of squirrels in a certain wooded area has tripled during every 3-year period of time. If there were 5,400 squirrels in the wooded area at the beginning of 1999, how many squirrels were in the wooded area at the beginning of 1990?

GO ON TO THE NEXT PAGE



11. In the figure above, triangles  $ABC$  and  $CDE$  are equilateral and line segment  $\overline{AE}$  has length 25. What is the sum of the perimeters of the two triangles?

12. Marbles are to be removed from a jar that contains 12 red marbles and 12 black marbles. What is the least number of marbles that could be removed so that the ratio of red marbles to black marbles left in the jar will be 4 to 3?

$$\begin{aligned}x &= 3v \\v &= 4t \\x &= pt\end{aligned}$$

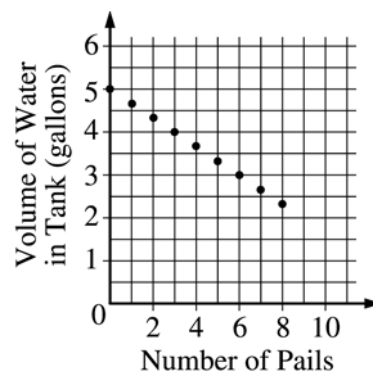
13. For the system of equations above, if  $x \neq 0$ , what is the value of  $p$ ?

14. If  $|-2x + 1| < 1$ , what is one possible value of  $x$ ?

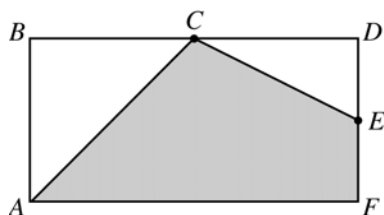
GO ON TO THE NEXT PAGE 



15. For what positive number is the square root of the number the same as the number divided by 40?



17. The graph above shows the amount of water remaining in a tank each time a pail was used to remove  $x$  gallons of water. If 5 gallons were in the tank originally and  $2\frac{1}{3}$  gallons remained after the last pail containing  $x$  gallons was removed, what is the value of  $x$ ?

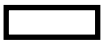


16. In rectangle  $ABDF$  above,  $C$  and  $E$  are midpoints of sides  $\overline{BD}$  and  $\overline{DF}$ , respectively. What fraction of the area of the rectangle is shaded?

18. If  $0 \leq x \leq y$  and  $(x + y)^2 - (x - y)^2 \geq 25$ , what is the least possible value of  $y$ ?

**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 5

Time — 25 minutes

20 Questions

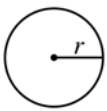
Turn to Section 5 (page 5) of your answer sheet to answer the questions in this section.

**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

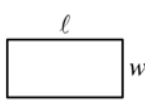
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- Unless otherwise specified, the domain of any function  $f$  is assumed to be the set of all real numbers  $x$  for which  $f(x)$  is a real number.

Reference Information

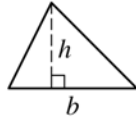


$$A = \pi r^2$$

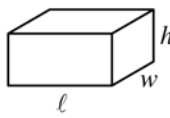
$$C = 2\pi r$$



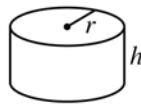
$$A = \ell w$$



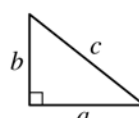
$$A = \frac{1}{2}bh$$



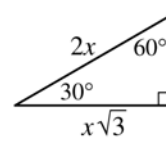
$$V = \ell wh$$



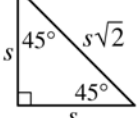
$$V = \pi r^2 h$$



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



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.

1. Each of the following is a factor of 80 EXCEPT

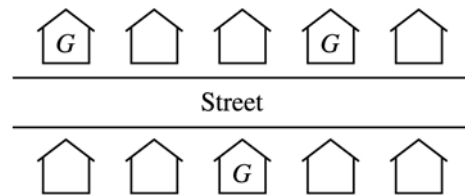
- (A) 5  
(B) 8  
(C) 12  
(D) 16  
(E) 40

$$k = 3wx$$

$$m = (w - 1)k$$

2. If  $k$  and  $m$  are defined by the equations above, what is the value of  $m$  when  $w = 4$  and  $x = 1$ ?

- (A) 0  
(B) 3  
(C) 12  
(D) 24  
(E) 36



3. There are five houses on each side of a street, as shown in the figure above. No two houses next to each other on the same side of the street and no two houses directly across from each other on opposite sides of the street can be painted the same color. If the houses labeled  $G$  are painted gray, how many of the seven remaining houses cannot be painted gray?

- (A) Two  
(B) Three  
(C) Four  
(D) Five  
(E) Six

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4. If  $7^n \times 7^3 = 7^{12}$ , what is the value of  $n$ ?

- (A) 2  
(B) 4  
(C) 9  
(D) 15  
(E) 36

PRICES

	Table	Chair
1990	\$240	\$25
1995	\$265	\$30
2000	\$280	\$36

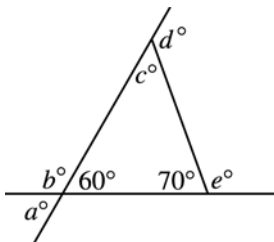
INVENTORY  
CAPACITY

Warehouse		
X	Y	Z
30	80	30
125	200	140

Tables  
Chairs

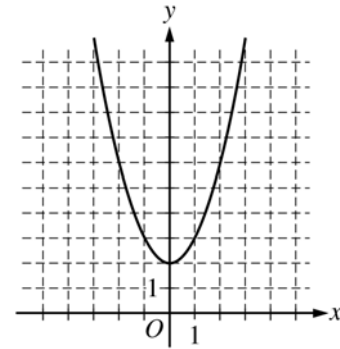
5. A furniture company makes one style of tables and chairs. The chart on the left above gives the prices of these tables and chairs in three different years. The chart on the right gives the maximum number of tables and chairs that can be stocked in each of three warehouses, X, Y, and Z. Based on the prices shown, what was the maximum possible value of the table and chair inventory in warehouse Y in 1995?

- (A) \$23,950  
(B) \$26,500  
(C) \$27,200  
(D) \$28,400  
(E) \$29,500



6. In the figure above, which of the following is greatest?

- (A)  $a$   
(B)  $b$   
(C)  $c$   
(D)  $d$   
(E)  $e$



7. Which of the following could be the equation of the graph above?

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

8. What is the total number of right angles formed by the edges of a cube?

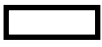
- (A) 36  
(B) 24  
(C) 20  
(D) 16  
(E) 12

9. If  $(p + 1)(t - 3) = 0$  and  $p$  is positive, what is the value of  $t$ ?

- (A)  $-3$   
(B)  $-1$   
(C)  $0$   
(D)  $1$   
(E)  $3$

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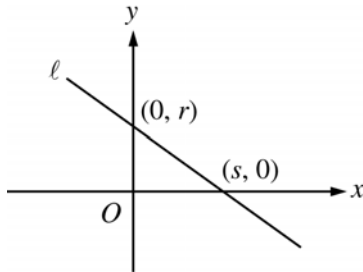
$(x, y)$
$(0, 100)$
$(1, 99)$
$(2, 96)$

10. Which of the following equations describes  $y$  in terms of  $x$  for all ordered pairs in the table above?

- (A)  $y = 100 - x^2$   
 (B)  $y = 100 - x$   
 (C)  $y = 100 - 2x$   
 (D)  $y = 100 - 4x$   
 (E)  $y = 100 - 100x$

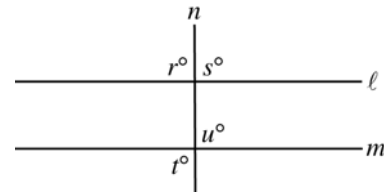
11. A stamp collecting club calculated that the average (arithmetic mean) number of stamps in its members' 10 collections was 88. However, it was discovered that 2 numbers in the calculations were entered incorrectly. The number 55 was entered as 75 and the number 78 as 88. What is the correct average number of stamps in the 10 collections?

- (A) 91  
 (B) 89  
 (C) 87  
 (D) 86  
 (E) 85



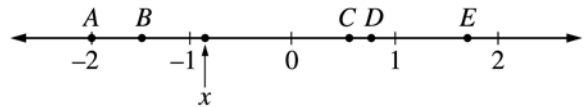
12. In the figure above, what is the slope of line  $\ell$ ?

- (A)  $-\frac{r}{s}$   
 (B)  $\frac{r}{s}$   
 (C)  $-\frac{s}{r}$   
 (D)  $\frac{s}{r}$   
 (E)  $-\frac{1}{rs}$



13. In the figure above, if  $\ell \parallel m$  and  $r = 91$ , then  $t + u =$

- (A) 178  
 (B) 179  
 (C) 180  
 (D) 181  
 (E) 182



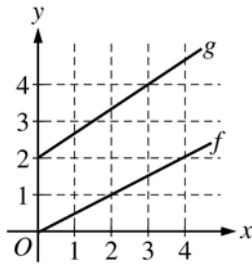
14. If  $x$  is the coordinate of the indicated point on the number line above, which of the lettered points has coordinate  $-2x$ ?

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

15. Points  $X$  and  $Y$  are two different points on a circle. Point  $M$  is located so that line segment  $\overline{XM}$  and line segment  $\overline{YM}$  have equal length. Which of the following could be true?

- I.  $M$  is the center of the circle.  
 II.  $M$  is on arc  $\widehat{XY}$ .  
 III.  $M$  is outside of the circle.

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



16. The graphs of the functions  $f$  and  $g$  are lines, as shown above. What is the value of  $f(3) + g(3)$ ?

(A) 1.5  
(B) 2  
(C) 3  
(D) 4  
(E) 5.5

17. If  $A$  is the set of prime numbers and  $B$  is the set of two-digit positive integers whose units digit is 5, how many numbers are common to both sets?

(A) None  
(B) One  
(C) Two  
(D) Five  
(E) Nine

18. If 75 percent of  $m$  is equal to  $k$  percent of 25, where  $k > 0$ , what is the value of  $\frac{m}{k}$ ?

(A)  $\frac{3}{16}$   
(B)  $\frac{1}{3}$   
(C)  $\frac{3}{4}$   
(D) 3  
(E)  $\frac{16}{3}$

19.  $R$  is the midpoint of line segment  $\overline{PT}$ , and  $Q$  is the midpoint of line segment  $\overline{PR}$ . If  $S$  is a point between  $R$  and  $T$  such that the length of segment  $\overline{QS}$  is 10 and the length of segment  $\overline{PS}$  is 19, what is the length of segment  $\overline{ST}$ ?

(A) 13  
(B) 14  
(C) 15  
(D) 16  
(E) 17

20. A telephone company charges  $x$  cents for the first minute of a call and charges for any additional time at the rate of  $y$  cents per minute. If a certain call costs \$5.55 and lasts more than 1 minute, which of the following expressions represents the length of that call, in minutes?

(A)  $\frac{555 - x}{y}$   
(B)  $\frac{555 + x - y}{y}$   
(C)  $\frac{555 - x + y}{y}$   
(D)  $\frac{555 - x - y}{y}$   
(E)  $\frac{555}{x + y}$

**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

Turn to Section 8 (page 7) 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

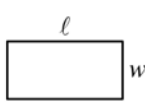
- The use of a calculator is permitted.
- All numbers used are real numbers.
- Figures that accompany problems in this test are intended to provide information useful in solving the problems. They are drawn as accurately as possible EXCEPT when it is stated in a specific problem that the figure is not 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



$$A = \pi r^2$$

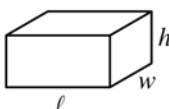
$$C = 2\pi r$$



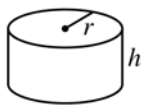
$$A = \ell w$$



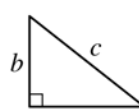
$$A = \frac{1}{2}bh$$



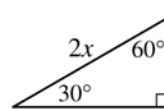
$$V = \ell wh$$



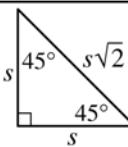
$$V = \pi r^2 h$$



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



Special Right Triangles

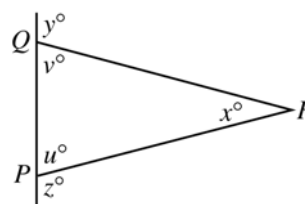


The number of degrees of arc in a circle is 360.

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

1. Conall had a box of 36 candy bars to sell for a class fundraiser. He sold 10 of the bars on his own, and his mother sold half of the remaining bars to her coworkers. If no other bars were sold, what fraction of Conall's original 36 bars remained unsold?

- (A)  $\frac{5}{8}$   
 (B)  $\frac{11}{36}$   
 (C)  $\frac{1}{3}$   
 (D)  $\frac{13}{36}$   
 (E)  $\frac{7}{18}$

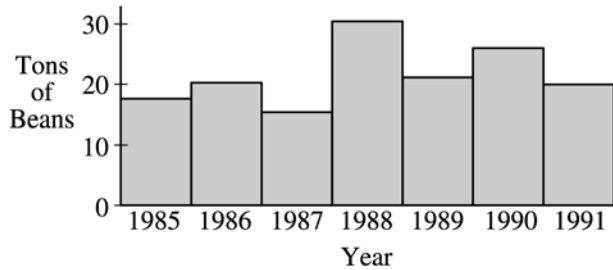


2. In  $\triangle PQR$  above,  $PR = QR$ . Which of the following must be true?
- (A)  $u = x$   
 (B)  $x = v$   
 (C)  $x = z$   
 (D)  $y = x$   
 (E)  $y = z$

GO ON TO THE NEXT PAGE



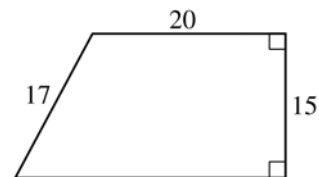
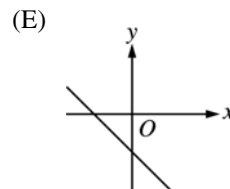
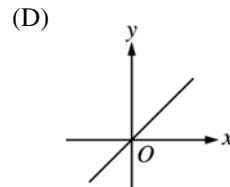
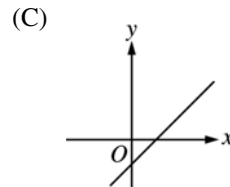
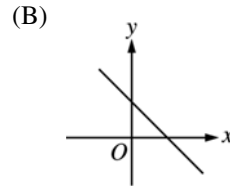
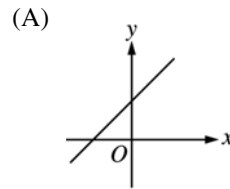
BEAN PRODUCTION



3. The bar graph above shows the number of tons of beans produced on a large farm for the years 1985 through 1991. For which of the following two-year periods was the average (arithmetic mean) bean production closest to the bean production in 1985?
- (A) 1986-1987  
 (B) 1987-1988  
 (C) 1988-1989  
 (D) 1989-1990  
 (E) 1990-1991

4. Marcus can spend no more than \$120 on jeans and shirts for school. He buys 3 pairs of jeans at \$32 each. If  $x$  represents the dollar amount he can spend on shirts, which of the following inequalities could be used to determine the possible values for  $x$ ?
- (A)  $(3) \cdot 32 - x \leq 120$   
 (B)  $(3) \cdot 32 - x \geq 120$   
 (C)  $(3) \cdot 32 + x \leq 120$   
 (D)  $(3) \cdot 32 + x \geq 120$   
 (E)  $x \leq (3) \cdot 32$

5. If  $y$  is directly proportional to  $x$ , which of the following could be the graph that shows the relationship between  $y$  and  $x$ ?

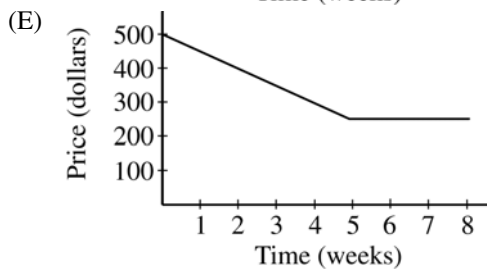
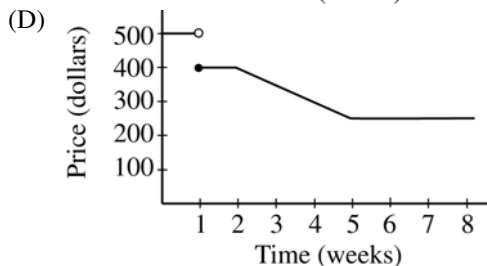
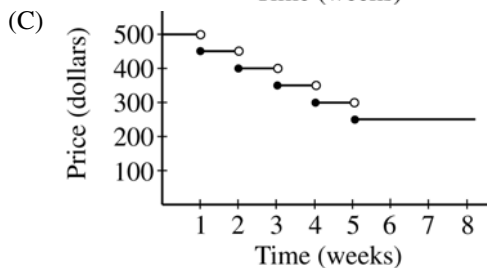
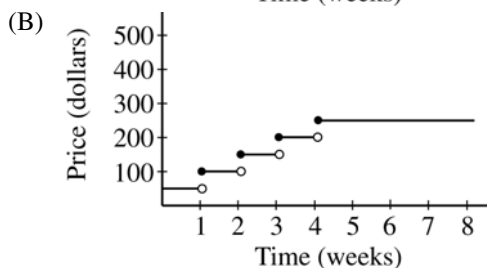
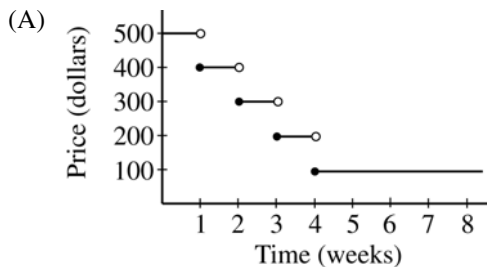


6. What is the perimeter of the trapezoid above?
- (A) 52  
 (B) 72  
 (C) 75  
 (D) 80  
 (E) 87

GO ON TO THE NEXT PAGE



7. A store discounts merchandise by 10 percent of the original price at the end of each week and stops when the merchandise is priced at 50 percent of the original price. Which of the following graphs could correctly represent the price of an article of merchandise over an eight-week period?



8. If  $\frac{x+y}{a-b} = \frac{2}{3}$ , then  $\frac{9x+9y}{10a-10b} =$

(A)  $\frac{9}{10}$

(B)  $\frac{20}{23}$

(C)  $\frac{20}{27}$

(D)  $\frac{2}{3}$

(E)  $\frac{3}{5}$

9. The interior dimensions of a rectangular fish tank are 4 feet long, 3 feet wide, and 2 feet high. The water level in the tank is 1 foot high. All of the water in this tank is poured into an empty second tank. If the interior dimensions of the second tank are 3 feet long, 2 feet wide, and 4 feet high, what is the height of the water in the second tank?

(A) 0.5 ft

(B) 1 ft

(C) 1.5 ft

(D) 2 ft

(E) 4 ft

1, 2, 3

10. If  $m$ ,  $n$ , and  $k$  are to be assigned different values from the list above, how many different values will be possible for the expression  $(m+n)^k$ ?

(A) Three

(B) Four

(C) Five

(D) Eight

(E) Nine

GO ON TO THE NEXT PAGE



## NUMBER OF EMPLOYEES AT COMPANY X

	First Shift	Second Shift
Salary over \$30,000	30	10
Salary \$30,000 or less	40	20

11. The table above shows the number of employees at Company X classified according to work shift and salary. If a second-shift employee will be picked at random, what is the probability that the employee's salary is over \$30,000 ?

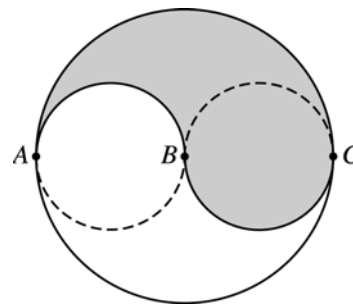
- (A)  $\frac{1}{2}$   
 (B)  $\frac{1}{3}$   
 (C)  $\frac{1}{10}$   
 (D)  $\frac{2}{3}$   
 (E)  $\frac{2}{5}$

12. If  $x$  is a positive integer satisfying  $x^7 = k$  and  $x^9 = m$ , which of the following must be equal to  $x^{11}$  ?

- (A)  $\frac{m^2}{k}$   
 (B)  $m^2 - k$   
 (C)  $m^2 - 7$   
 (D)  $2k - \frac{m}{3}$   
 (E)  $k + 4$

13. After the first term in a sequence of positive integers, the ratio of each term to the term immediately preceding it is 2 to 1. What is the ratio of the 8th term in this sequence to the 5th term?

- (A) 6 to 1  
 (B) 8 to 5  
 (C) 8 to 1  
 (D) 64 to 1  
 (E) 256 to 1

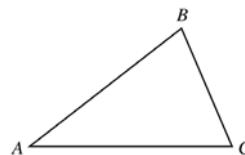


14. In the figure above, the smaller circles each have radius 3. They are tangent to the larger circle at points A and C, and are tangent to each other at point B, which is the center of the larger circle. What is the perimeter of the shaded region?

- (A)  $6\pi$   
 (B)  $8\pi$   
 (C)  $9\pi$   
 (D)  $12\pi$   
 (E)  $15\pi$

15. Each of the following inequalities is true for some values of  $x$  EXCEPT

- (A)  $x < x^2 < x^3$   
 (B)  $x < x^3 < x^2$   
 (C)  $x^2 < x^3 < x$   
 (D)  $x^3 < x < x^2$   
 (E)  $x^3 < x^2 < x$



Note: Figure not drawn to scale.

16. In the figure above,  $AC = 6$  and  $BC = 3$ . Point  $P$  (not shown) lies on  $\overline{AB}$  between  $A$  and  $B$  such that  $\overline{CP} \perp \overline{AB}$ . Which of the following could be the length of  $\overline{CP}$  ?

- (A) 2  
 (B) 4  
 (C) 5  
 (D) 7  
 (E) 8

**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.

# Correct Answers and Difficulty Levels for the Official SAT Practice Test

## Critical Reading

### Section 4

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

Number correct

Number incorrect

### Section 6

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

Number correct

Number incorrect

### Section 9

COR. DIFF.			COR. DIFF.		
ANS.	LEV.		ANS.	LEV.	
1.	E	1	11.	C	3
2.	B	2	12.	C	4
3.	C	3	13.	A	3
4.	C	3	14.	B	5
5.	D	4	15.	A	3
6.	A	5	16.	D	3
7.	B	3	17.	C	3
8.	D	2	18.	C	3
9.	E	3	19.	E	3
10.	C	4			

Number correct

Number incorrect

## Mathematics

### Section 2

Multiple-Choice Questions			Student-Produced Response Questions		
COR.	DIFF.		COR.	DIFF.	
ANS.	LEV.		ANS.	LEV.	
1.	B	1	9.	89	1
2.	C	1	10.	200	2
3.	A	1	11.	75	3
4.	D	2	12.	3	3
5.	B	3	13.	12	3
6.	D	4	14.	$0 < x < 1$	3
7.	C	4	15.	1600	3
8.	E	4	16.	$5/8$ or $.625$	4
			17.	$1/3$ or $.333$	4
			18.	$5/2$ or $2.5$	5

Number correct

Number incorrect

Number correct  
(9-18)

### Section 5

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

Number correct

Number incorrect

### Section 8

COR. DIFF.			COR. DIFF.		
ANS.	LEV.		ANS.	LEV.	
1.	D	1	9.	D	3
2.	E	1	10.	A	3
3.	A	1	11.	B	3
4.	C	2	12.	A	4
5.	D	2	13.	C	4
6.	D	3	14.	D	4
7.	C	3	15.	C	5
8.	E	3	16.	A	5

Number correct

Number incorrect

## Writing

### Section 3

COR. DIFF.			COR. DIFF.			COR. DIFF.			COR. DIFF.		
ANS.	LEV.		ANS.	LEV.		ANS.	LEV.		ANS.	LEV.	
1.	D	2	10.	C	5	19.	E	2	28.	A	3
2.	E	1	11.	C	5	20.	A	5	29.	E	3
3.	E	1	12.	A	1	21.	E	3	30.	C	3
4.	E	3	13.	D	3	22.	D	3	31.	E	3
5.	B	3	14.	B	1	23.	D	4	32.	A	3
6.	A	3	15.	B	1	24.	A	1	33.	E	3
7.	B	3	16.	A	3	25.	B	5	34.	A	3
8.	D	3	17.	C	3	26.	C	5	35.	C	3
9.	C	3	18.	C	3	27.	D	5			

Number correct


Number incorrect

### Section 10

COR. DIFF.			COR. DIFF.			COR. DIFF.		
ANS.	LEV.		ANS.	LEV.		ANS.	LEV.	
1.	C	1	6.	A	1	11.	E	3
2.	D	1	7.	C	2	12.	B	3
3.	D	1	8.	B	3	13.	C	4
4.	D	1	9.	A	3	14.	D	5
5.	C	3	10.	D	3			

Number correct

Number incorrect



Get a score report and answer explanations! Enter your answers online at [collegeboard.com/satpracticetest](http://collegeboard.com/satpracticetest).

NOTE: Difficulty levels are estimates of question difficulty for a reference group of college-bound seniors. Difficulty levels range from 1 (easiest) to 5 (hardest).

## SAT Score Conversion Table

Raw Score	Critical Reading Scaled Score	Math Scaled Score	Writing Multiple-Choice Scaled Score*	Raw Score	Critical Reading Scaled Score	Math Scaled Score	Writing Multiple-Choice Scaled Score*
67	800			31	510	560	56
66	800			30	500	550	55
65	800			29	490	540	54
64	790			28	490	530	53
63	770			27	480	520	52
62	750			26	470	520	51
61	740			25	470	510	50
60	720			24	460	500	49
59	710			23	450	490	49
58	700			22	450	480	48
57	690			21	440	470	47
56	680			20	440	460	46
55	670			19	430	450	45
54	660	800		18	420	450	44
53	650	790		17	420	440	43
52	650	760		16	410	430	42
51	640	740		15	400	420	41
50	630	720		14	400	410	40
49	620	710	80	13	390	400	39
48	620	700	80	12	380	390	38
47	610	690	77	11	370	380	37
46	600	680	75	10	370	370	36
45	600	670	73	9	360	360	35
44	590	660	71	8	350	340	34
43	580	650	70	7	340	330	33
42	580	650	68	6	330	320	31
41	570	640	67	5	320	310	30
40	560	630	66	4	310	290	28
39	560	620	65	3	300	280	27
38	550	610	63	2	280	260	25
37	540	610	62	1	270	250	23
36	540	600	61	0	250	230	21
35	530	590	60	-1	230	210	20
34	520	580	59	-2	210	200	20
33	520	570	58	-3	200	200	20
32	510	570	57	and below			

This table is for use only with the test in this booklet.

\* The writing multiple-choice score is reported on a 20-80 scale. Use the table on page 87 for the writing composite scaled score.



## SAT Writing Composite Score Conversion Table

Writing MC Raw Score	Essay Raw Score											
	12	11	10	9	8	7	6	5	4	3	2	0
49	800	800	800	800	790	770	750	730	720	700	690	680
48	800	800	800	780	760	750	730	710	700	680	670	660
47	800	790	770	760	740	720	700	690	670	660	640	630
46	780	770	750	740	720	700	690	670	650	640	620	610
45	770	750	740	720	700	690	670	650	640	620	610	600
44	750	740	720	710	690	670	660	640	630	610	590	580
43	740	730	710	700	680	660	640	630	610	600	580	570
42	730	720	700	690	670	650	630	610	600	580	570	560
41	720	710	690	670	660	640	620	600	590	570	560	550
40	710	690	680	660	640	630	610	590	580	560	550	540
39	700	680	670	650	630	620	600	580	570	550	540	530
38	690	680	660	640	630	610	590	570	560	540	530	520
37	680	670	650	640	620	600	580	560	550	530	520	510
36	670	660	640	630	610	590	570	560	540	530	510	500
35	660	650	630	620	600	580	560	550	530	520	500	490
34	650	640	620	610	590	570	560	540	520	510	490	480
33	650	630	620	600	580	560	550	530	520	500	480	470
32	640	620	610	590	570	550	540	520	510	490	480	470
31	630	620	600	580	570	550	530	510	500	480	470	460
30	620	610	590	580	560	540	520	510	490	480	460	450
29	610	600	580	570	550	530	520	500	480	470	450	440
28	610	590	580	560	540	520	510	490	480	460	440	430
27	600	590	570	550	540	520	500	480	470	450	440	430
26	590	580	560	550	530	510	490	480	460	440	430	420
25	580	570	550	540	520	500	480	470	450	440	420	410
24	580	560	550	530	510	490	480	460	450	430	410	400
23	570	550	540	520	500	490	470	450	440	420	410	400
22	560	550	530	520	500	480	460	440	430	410	400	390
21	550	540	520	510	490	470	450	440	420	410	390	380
20	550	530	520	500	480	460	450	430	420	400	380	370
19	540	520	510	490	470	450	440	420	410	390	380	370
18	530	520	500	490	470	450	430	410	400	380	370	360
17	520	510	490	480	460	440	420	410	390	380	360	350
16	510	500	480	470	450	430	420	400	390	370	350	340
15	510	490	480	460	440	420	410	390	380	360	340	330
14	500	490	470	450	440	420	400	380	370	350	340	330
13	490	480	460	450	430	410	390	380	360	340	330	320
12	480	470	450	440	420	400	380	370	350	340	320	310
11	470	460	440	430	410	390	380	360	350	330	310	300
10	470	450	440	420	400	380	370	350	340	320	300	290
9	460	440	430	410	390	370	360	340	330	310	300	290
8	450	430	420	400	380	370	350	330	320	300	290	280
7	440	430	410	390	380	360	340	320	310	290	280	270
6	430	410	400	380	360	350	330	310	300	280	270	260
5	420	400	390	370	350	330	320	300	290	270	260	250
4	410	390	380	360	340	320	310	290	280	260	240	230
3	390	380	360	350	330	310	290	280	260	250	230	220
2	380	360	350	330	310	290	280	260	250	230	220	200
1	360	350	330	320	300	280	260	240	230	210	200	200
0	340	330	310	300	280	260	240	230	210	200	200	200
-1	320	310	290	280	260	240	230	210	200	200	200	200
-2 and below	310	300	280	270	250	230	210	200	200	200	200	200

This table is for use only with the test in this booklet.