

SAT Prep Test 1—Math

Module 1

Turn to Section 2 of your answer sheet to answer the questions in this section.

DIRECTIONS

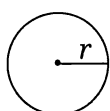
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NOTES

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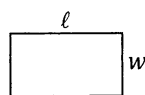
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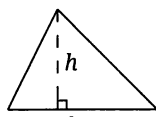


$$A = \pi r^2$$

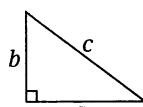
$$C = 2\pi r$$



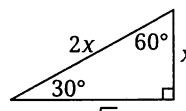
$$A = \ell w$$



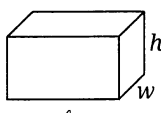
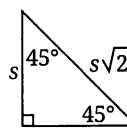
$$A = \frac{1}{2}bh$$



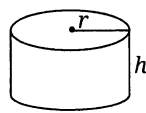
$$c^2 = a^2 + b^2$$



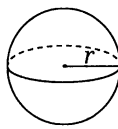
Special Right Triangles



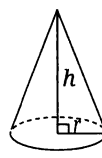
$$V = \ell wh$$



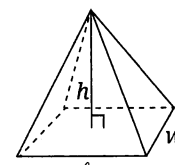
$$V = \pi r^2 h$$



$$V = \frac{4}{3}\pi r^3$$



$$V = \frac{1}{3}\pi r^2 h$$



$$V = \frac{1}{3}\ell wh$$

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

The number of radians of arc in a circle is 2π .

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

CONTINUE

For multiple-choice questions, solve each problem, choose the correct answer from the choices provided, and then circle your answer in this book. Circle only one answer for each question. If you change your mind, completely erase the circle. You will not get credit for questions with more than one answer circled, or for questions with no answers circled.

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CONTINUE 

Section 2, Module 1: Math

1 Mark for Review

A data set containing only the values 2, 2, 9, 9, 9, 16, 16, 16, 16, 26, 26, and 26 is represented by a frequency table. Which of the following is the correct representation of this data set?

(A)

Number	Frequency
2	4
9	27
16	64
26	78

(B)

Number	Frequency
2	2
9	3
16	4
26	3

(C)

Number	Frequency
2	2
3	9
4	16
3	26

(D)

Number	Frequency
4	2
27	9
64	16
78	26

2 Mark for Review

The expression $x^2 - x - 56$ is equivalent to which of the following?

(A) $(x - 14)(x + 4)$

(B) $(x - 7)(x + 8)$

(C) $(x - 8)(x + 7)$

(D) $(x - 4)(x + 14)$

3 Mark for Review

A carpenter hammers 10 nails per minute and installs 7 screws per minute during a project. Which of the following equations represents the scenario if the carpenter hammers nails for x minutes, installs screws for y minutes, and uses a combined total of 200 nails and screws?

(A) $\frac{1}{10}x + \frac{1}{7}y = 200$

(B) $\frac{1}{10}x + \frac{1}{7}y = 3,420$

(C) $10x + 7y = 200$

(D) $10x + 7y = 3,420$

CONTINUE 

4 Mark for Review

What is the measure of angle F in the triangle DEF , where angle D is 73° and angle E is 35° ?

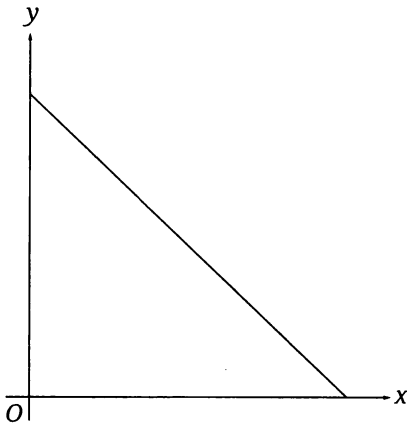
(A) 38°

(B) 72°

(C) 108°

(D) 126°

5 Mark for Review



The total amount of plastic remaining to be recycled in a facility over x shifts is represented by the graph above. Which of the following represents the y -intercept of the graph?

(A) The total amount of plastic remaining at any given time

(B) The number of shifts it will take to finish recycling the plastic

(C) The amount of plastic that is recycled per shift

(D) The initial amount of plastic to be recycled

6 Mark for Review

The table below shows the condition and subject type for 200 textbooks at a bookstore.

	Biology	Chemistry	Physics	Anatomy	Total
Used	10	25	30	15	80
New	30	25	10	55	120
Total	40	50	40	70	200

What is the probability that a textbook chosen at random will be a new textbook? (Express your answer as a decimal or fraction, not as a percent.)

7 Mark for Review

A random sample of 5,000 students out of 60,000 undergraduate students at a university were surveyed about a potential change to the registration system. According to the survey results, 75% of the respondents did not support the existing registration system, with a 4% margin of error. Which of the following represents a reasonable total number of students who did not support the existing registration system?

(A) 1,250

(B) 3,750

(C) 13,800

(D) 43,800

CONTINUE

Section 2, Module 1: Math

8  Mark for Review

What is the negative solution to the equation $\frac{32}{a} = a - 4$?

9  Mark for Review

After a hot air balloon is launched from a plateau 1,000 meters above sea level, it rises at a constant rate of 750 meters per minute. Which of the following best describes the function used to model the balloon's distance above sea level over time?

(A) Increasing linear

(B) Increasing exponential

(C) Decreasing linear

(D) Decreasing exponential

10  Mark for Review

What is the x -intercept of the function $f(x) = (22)^x - 1$ when it is graphed in the xy -plane, where $y = f(x)$?

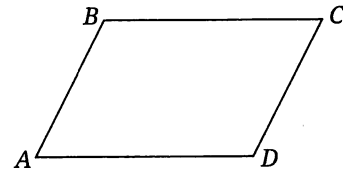
(A) $(-1, 0)$

(B) $(0, 0)$

(C) $(21, 0)$

(D) $(22, 0)$

11  Mark for Review



Note: Figure not drawn to scale.

In parallelogram $ABCD$ shown above, the length of \overline{AB} is one-third the length of \overline{AD} . The perimeter of the parallelogram is 64. What is the length of \overline{AB} ?

(A) 8

(B) 16

(C) 24

(D) 32

12  Mark for Review

A triangle with an area of 18 square units has a base of $(m + 5)$ units and a height of m units. What is the value of m ?

(A) 4

(B) 9

(C) 13

(D) 36

CONTINUE 

13  Mark for Review

Time (seconds)	Number of colonies of yeast
0	5
1	20
2	80
3	320

The table above shows the exponential growth of a type of yeast over time s , in seconds. There are c total yeast colonies on the count plate. What is the equation that represents this relationship, assuming that no yeast was added or removed after counting began?

(A) $c = (1 + 3)^s$

(B) $c = (1 + 5)^s$

(C) $c = 3(1 + 5)^s$

(D) $c = 5(1 + 3)^s$

14  Mark for Review

The equations $12x = y$ and $24x + 7 = 2y$ intersect at how many points when graphed in the xy -plane?

(A) 0

(B) 1

(C) 2

(D) 7

15  Mark for Review

Several tiles labeled with either an A or a B are placed in a bag, and tiles are worth a different point value depending on the label. The equation $15a + 10b = 100$ represents the situation when a of the A tiles and b of the B tiles are drawn from the bag for a total of 100 points. How many points would be earned by drawing one A tile and one B tile from the bag?

16  Mark for Review

The amount of money remaining in a scholarship fund is reduced by one-fourth every year. The amount of money in the fund is represented by d and the number of years by y . If the fund starts with \$10,000, which equation below represents this situation after y years?

(A) $d = \frac{1}{4}(10,000)^y$

(B) $d = \frac{3}{4}(10,000)^y$

(C) $d = 10,000\left(\frac{1}{4}\right)^y$

(D) $d = 10,000\left(\frac{3}{4}\right)^y$


CONTINUE

Section 2, Module 1: Math

17  Mark for Review

What is the diameter, in millimeters (mm), of a cylinder with a volume of $144\pi \text{ mm}^3$ and a height of 4 mm?

(A) 6

(B) 9

(C) 12

(D) 36

18  Mark for Review

$$4x + 2y = 4$$

$$19x + 10y = 14$$

When graphed in the xy -plane, the linear equations shown above intersect at (a, b) . What is the value of a ?

(A) -20

(B) -10

(C) 6

(D) 14

19  Mark for Review

The longest side of right triangle ABC is opposite angle B . If $\sin(A) = \frac{9}{41}$, what is the value of $\sin(C)$?

20  Mark for Review

Function g reaches its maximum value when $x = a$. If $g(x) = -6x^2 - 30x - 24$, what is the value of a ?

CONTINUE 

21  Mark for Review

$$f(x) = -\frac{1}{5}x - 3$$

The linear function $f(x)$, given above, is perpendicular to $g(x)$ when graphed in the xy -plane. If $g(0) = 0$, what is the value of $g(2)$?

22  Mark for Review

$$y = 5kx^2 + 2x + 3$$

$$\frac{y}{10} = -x$$

The system of equations above has exactly one solution. If k is a constant, what is the value of k ?

CONTINUE 

SAT Prep Test 1—Math

Module 2—Easier

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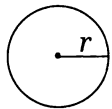
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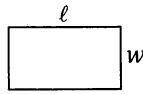
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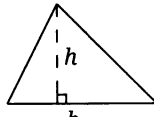


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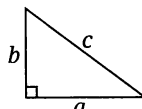
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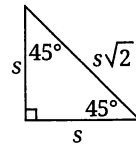
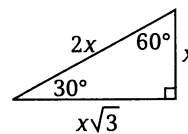
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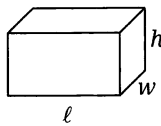
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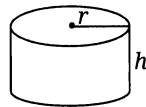
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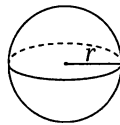
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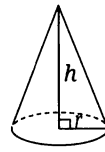
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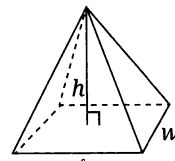
$$V = \pi r^2 h$$



$$V = \frac{4}{3}\pi r^3$$



$$V = \frac{1}{3}\pi r^2 h$$



$$V = \frac{1}{3}\ell wh$$

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

The number of radians of arc in a circle is 2π .

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

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CONTINUE 

Section 2, Module 2—Easier: Math

1  Mark for Review

33, 34, 38, 41, 43, 44, 47

Which of the following is the median of the data listed above?

(A) 38

(B) 40

(C) 41

(D) 42

2  Mark for Review

What is the value of the solution to the equation $22 = y - 10$?

3  Mark for Review

A rectangle has a height of 23 inches (in) and a width of 9 in. What is its perimeter, in inches?

(A) 32

(B) 64

(C) 207

(D) 1,024

4  Mark for Review

$15a - (6a - 2a)$

Which of the following expressions is equivalent to the one above?

(A) $5a$

(B) $7a$

(C) $11a$

(D) $23a$

5  Mark for Review

Which equation represents the relationship between the numbers a and b if a is half of b ?

(A) $a = \frac{1}{2}b$

(B) $a = b - 2$

(C) $a = b + 2$

(D) $b = \frac{1}{2}a$

CONTINUE 

6  Mark for Review

For all positive values of y , the expression $\frac{3}{y+c}$ is equivalent to $\frac{15}{5y+30}$. What is the value of constant c ?

 (A) 3 (B) 6 (C) 8 (D) 150**7**  Mark for Review

A total of 200 pets were adopted at an event. If 70% of the adopted pets were dogs, how many of the pets were dogs?

8  Mark for Review

James must drive 100 miles before he can take his driver's license test. He knows that when he drives around town running errands, he drives at an average speed of 20 miles per hour. If James maintains this average speed, how many hours must he drive to meet the requirement for his driver's license test?

 (A) 5 (B) 20 (C) 80 (D) 100**9**  Mark for Review

What is the value of $4y - 16$ if $y - 4 = 11$?

CONTINUE 

Section 2, Module 2—Easier: Math

10  Mark for Review

The function g is defined as $g(x) = x^2 - 1$. What is the value of $g(x)$ when $x = 3$?

(A) 4

(B) 5

(C) 7

(D) 8

11  Mark for Review

The production cost $p(x)$, in dollars, to produce x units of an item when materials cost \$2 per item is given by $p(x) = 2x + 150$. What is the total cost to produce 2,000 units of this item?

(A) \$1,850

(B) \$2,300

(C) \$3,850

(D) \$4,150

12  Mark for Review

The function f is given as $f(x) = \frac{2}{3}x$. When $x = 6$, what is the value of $f(x)$?

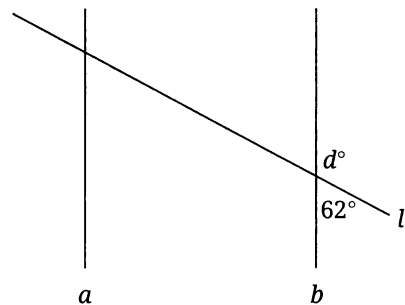
(A) 2

(B) 4

(C) 6

(D) 9

13  Mark for Review



Note: Figure not drawn to scale.

In the figure above, what is the value of d if line a is parallel to line b ?

CONTINUE 

14  Mark for Review

$$3x - 4y = 17$$

In the xy -plane, the graph of a line with an x -intercept of $(c, 0)$ and a y -intercept of $(0, k)$, where c and k are constants, can be represented by the equation above. What is the value of $\frac{c}{k}$?

(A) $-\frac{4}{3}$

(B) $-\frac{3}{4}$

(C) $\frac{3}{4}$

(D) $\frac{4}{3}$

15  Mark for Review

A postal machine processes mail at a constant rate of 21 pieces of mail per minute. At this rate, how many pieces of mail would the machine process in 7 minutes?

(A) 3

(B) 14

(C) 28

(D) 147

16  Mark for Review

Stella had 211 invitations to send for an event. She has already sent 43 invitations and will send them all if she sends 24 each day for the next d days. Which of the following equations represents this situation?

(A) $24d - 43 = 211$

(B) $24d + 43 = 211$

(C) $43d - 24 = 211$

(D) $43d + 24 = 211$

17  Mark for Review

x	-1	0	1	2
$f(x)$	12	15	18	21

When the linear function $y = f(x)$ is graphed in the xy -plane, the graph contains the corresponding values of x and $f(x)$ shown in the table above. Which of the following could represent the function?

(A) $f(x) = 3x + 12$

(B) $f(x) = 3x + 15$

(C) $f(x) = 15x + 12$

(D) $f(x) = 15x + 15$


CONTINUE

Section 2, Module 2—Easier: Math

18  Mark for Review

The height of a rocket launched from a rooftop can be modeled by the equation $h = -16s^2 + 64s + 21$, where h is the height of the rocket above the ground, in feet, and s is the number of seconds since the rocket was launched. Which of the following represents the height, in feet, of the rooftop from which the rocket was launched?

(A) 0

(B) 16

(C) 21

(D) 64

19  Mark for Review

Function f is defined by $f(x) = x^3 + 1$. Which of the following tables gives three values of x and their corresponding values of y ?

(A)

x	2	3	4
y	3	4	5

(B)

x	2	3	4
y	3	28	64

(C)

x	2	3	4
y	9	10	65

(D)

x	2	3	4
y	9	28	65

20  Mark for Review

If $h(-1) = 3$ and $h(0) = 5$ in linear function h , which of the following is the equation of function h ?

(A) $h(x) = 2x + 5$

(B) $h(x) = 2x + 3$

(C) $h(x) = 2x$

(D) $h(x) = 3x + 5$

CONTINUE 

21  Mark for Review

Which of the following equations correctly expresses r in terms of p and s if the relationship between the numbers p , r , and s can be expressed as $p = 13r - 6s$?

(A) $r = \frac{-6s - p}{13}$

(B) $r = 13p + 6s$

(C) $r = \frac{1}{13}p + 6s$

(D) $r = \frac{p + 6s}{13}$

22  Mark for Review

Right triangle ABC has sides of the following lengths: $AB = 165$, $BC = 280$, and $AC = 325$. Another triangle, LMN , is similar to ABC such that A corresponds to L and B corresponds to M . What is the value of $\cos(L)$?

(A) $\frac{33}{65}$

(B) $\frac{33}{56}$

(C) $\frac{56}{65}$

(D) $\frac{65}{33}$

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SAT Prep Test 1—Math

Module 2—Harder

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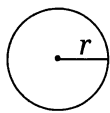
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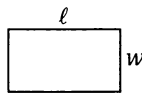
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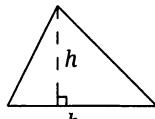


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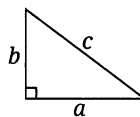
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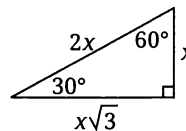
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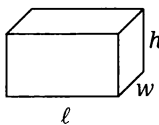
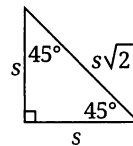
$$A = \frac{1}{2}bh$$



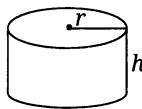
$$c^2 = a^2 + b^2$$



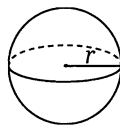
Special Right Triangles



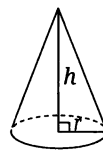
$$V = \ell wh$$



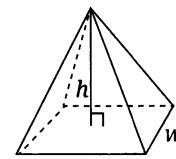
$$V = \pi r^2 h$$



$$V = \frac{4}{3}\pi r^3$$



$$V = \frac{1}{3}\pi r^2 h$$



$$V = \frac{1}{3}\ell wh$$

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

The number of radians of arc in a circle is 2π .

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

CONTINUE

For multiple-choice questions, solve each problem, choose the correct answer from the choices provided, and then circle your answer in this book. Circle only one answer for each question. If you change your mind, completely erase the circle. You will not get credit for questions with more than one answer circled, or for questions with no answers circled.

For student-produced response directions, solve each problem and write your answer next to or under the question in the test book as described below.

- Once you've written your answer, circle it clearly. You will not receive credit for anything written outside the circle, or for any questions with more than one circled answer.
- If you find **more than one correct answer**, write and circle only one answer.
- Your answer can be up to 5 characters for a **positive** answer and up to 6 characters (including the negative sign) for a **negative** answer, but no more.
- If your answer is a **fraction** that is too long (over 5 characters for positive, 6 characters for negative), write the decimal equivalent.
- If your answer is a **decimal** that is too long (over 5 characters for positive, 6 characters for negative), truncate it or round at the fourth digit.
- If your answer is a **mixed number** (such as $3\frac{1}{2}$), write it as an improper fraction ($7/2$) or its decimal equivalent (3.5).
- Don't enter **symbols** such as a percent sign, comma, or dollar sign in your circled answer.

CONTINUE 

Section 2, Module 2—Harder: Math

1  Mark for Review

Which of the following is equivalent to $3a^3 - 5a^3 + 6a$?

(A) $-2a^3 + 6a$

(B) $3a^3 + a$

(C) $4a$

(D) $-15a^9 + 6a$

2  Mark for Review

In a shipment of 45,000,000 shirts, 4,950,000 are white. What percentage of the shirts are white shirts?

(A) 11%

(B) 22%

(C) 78%

(D) 89%

3  Mark for Review

If $3(x - 8) - 16 = 8(x + 10) + x$, what is the value of $6x$?

4  Mark for Review

$$8(a - 3) - 17 = 9(a - 3)$$

In the equation above, what is the value of $a - 3$?

(A) -20

(B) -17

(C) -14

(D) 3

5  Mark for Review

A school classroom with a total of 4,200 floor tiles is divided into a 30 square-foot lab area and an 80 square-foot seating area. The number of tiles on the entire classroom floor can be represented by the equation $30a + 80b = 4,200$. In this context, which of the following does b represent?

(A) The average number of tiles per square foot in the lab area

(B) The total number of tiles in the lab area

(C) The average number of tiles per square foot in the seating area

(D) The total number of tiles in the seating area

CONTINUE 

6  Mark for Review

A triangle has a base that is 65% of its height. If the base were decreased by 13 inches, how would the height need to change to keep the same proportions?

- (A) It must increase by 13 inches.
- (B) It must increase by 20 inches.
- (C) It must decrease by 13 inches.
- (D) It must decrease by 20 inches.

7  Mark for Review

If $\frac{a}{3} = 10 - 7b$ and $a \neq 0$, which of the following correctly expresses b in terms of a ?

- (A) $b = \frac{a-21}{30}$
- (B) $b = \frac{30-a}{21}$
- (C) $b = 10 + \frac{a}{3}$
- (D) $b = 10 + \frac{3}{a}$

8  Mark for Review

For all positive values of y , the expression $\frac{3}{y+c}$ is equivalent to $\frac{15}{5y+30}$. What is the value of constant c ?

- (A) 3
- (B) 6
- (C) 8
- (D) 150

9  Mark for Review

In the xy -plane, the equation $(x-7)^2 + (y+7)^2 = 64$ defines circle O, and the equation $(x-7)^2 + (y+7)^2 = c$ defines circle P. If the two circles have the same center, and the radius of circle P is three less than the radius of circle O, what is the value of constant c ?

CONTINUE 

Section 2, Module 2—Harder: Math

10  Mark for Review

A school has received a donation of \$20,000 for the purchase of new laptops. If each laptop costs \$149, no tax is charged, and the laptop manufacturer offers a 7.5% discount on orders of at least 100 laptops, what is the maximum number of laptops the school can purchase with the donation?

(A) 124

(B) 134

(C) 145

(D) 146

11  Mark for Review

$$3x^2 - y - 26 = 0$$
$$y = -3x + 10$$

The point (a, b) is an intersection of the system of equations above when graphed in the xy -plane. What is a possible value of a ?

(A) -4

(B) 6

(C) 20

(D) 26

12  Mark for Review

How many values for y satisfy the equation $-6(4y + 2) = 3(4 - 8y)$?

(A) Zero

(B) Exactly one

(C) Exactly two

(D) Infinitely many

13  Mark for Review

A parabola represents the graph of the function f in the xy -plane, where $y = f(x)$. If the vertex of the parabola is $(5, -4)$ and one of the x -intercepts is $(-1.5, 0)$, what is the other x -intercept?

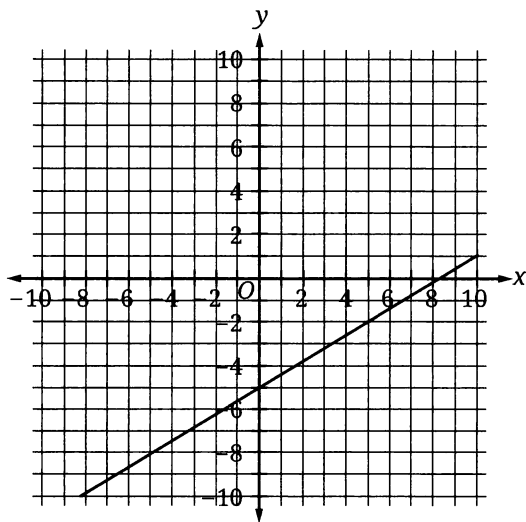
(A) $(-6.5, 0)$

(B) $(1.5, 0)$

(C) $(3.5, 0)$

(D) $(11.5, 0)$

CONTINUE 

14  Mark for Review

Which equation defines function g , if the graph of $y = g(x) - 10$ is shown above?

(A) $y = \frac{3}{5}x - 15$

(B) $y = \frac{3}{5}x - 5$

(C) $y = \frac{3}{5}x + 5$

(D) $y = \frac{3}{5}x + 10$

15  Mark for Review

If c is a constant in the equation $10x^2 + c = -5x$, and the equation has no real solutions, what is the value of c ?

(A) -20

(B) -5

(C) 0

(D) 1

16  Mark for Review

$$3x - 4y = 17$$

In the xy -plane, the graph of a line with an x -intercept of $(c, 0)$ and a y -intercept of $(0, k)$, where c and k are constants, can be represented by the equation above.

What is the value of $\frac{c}{k}$?

(A) $-\frac{4}{3}$

(B) $-\frac{3}{4}$

(C) $\frac{3}{4}$

(D) $\frac{4}{3}$


CONTINUE

Section 2, Module 2—Harder: Math

17  Mark for Review

$$\begin{aligned} -7 + 2f &= cg \\ 21g + 21 &= 6f - 15g \end{aligned}$$

If c is a constant, and the system of equations shown above has infinitely many solutions, what is the value of c ?

18  Mark for Review

Triangle A has angles measuring 30° , 60° , and 90° . What is the perimeter, in centimeters, of this triangle if the smallest side has a length of 15 centimeters?

(A) $15\sqrt{3}$

(B) $15 + 15\sqrt{3}$

(C) $45 + 15\sqrt{3}$

(D) $45\sqrt{3}$

19  Mark for Review

x	2	4	6	8
$g(x)$	46	0	-46	-92

Four values of x and their corresponding values of $g(x)$ are shown in the table above for the linear function g . The equation $g(x) = cx + d$ defines function g , and c and d are constants. What is the value of $c + d$?

(A) -23

(B) 69

(C) 92

(D) 115

20  Mark for Review

114, 109, 106, 111

A data set consists of 5 positive integers greater than 101. What is the value of the smallest integer in the data set if the mean of the entire data set is an integer that is less than the mean of the four integers from the data set shown above?

CONTINUE 

21  Mark for Review

A teacher awards points to a class based on completed assignments. He gives 5 points per assignment for the first 50 completed assignments and 3 points for each additional completed assignment beyond 50. When $a \geq 50$, which function g gives the total number of points earned by the class for a completed assignments?

(A) $g(a) = 3a + 5$

(B) $g(a) = 3a + 100$

(C) $g(a) = 3a + 250$

(D) $g(a) = 8a - 150$

22  Mark for Review

In triangles ABC and XYZ , $AB = 22$, $XY = 11$, and angles A and X both measure 77° . Which of the following pieces of information, if any, would be enough to prove that the two triangles are similar to each other?

I. Angle B measures 40°

II. Angle Y measures 50°

III. Angle Z measures 63°

(A) No additional information is necessary.

(B) Angle measures alone do not provide enough information.

(C) I and II together provide enough information.

(D) I and III together provide enough information.

CONTINUE 

SAT Prep, 2024 Edition Practice Test



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(Print) Month / Day / Year



For both the Reading and Writing and the Math, be sure to only fill in the bubbles for the version of Module 2 that you took. If you took the Easier Module 2, only fill in the answer in the Easier column. If you took the Harder Module 2, only fill in the answers in the Harder column.

Section 1: Module 1 Reading and Writing

- 1. A B C D
- 2. A B C D
- 3. A B C D
- 4. A B C D
- 5. A B C D
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- 21. A B C D
- 22. A B C D
- 23. A B C D
- 24. A B C D
- 25. A B C D
- 26. A B C D
- 27. A B C D

Section 1: Module 2 (Easier) Reading and Writing

- 1. A B C D
- 2. A B C D
- 3. A B C D
- 4. A B C D
- 5. A B C D
- 6. A B C D
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- 23. A B C D
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- 26. A B C D
- 27. A B C D

Section 1: Module 2 (Harder) Reading and Writing

- 1. A B C D
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**SAT Prep, 2024 Edition
Practice Test**



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HOME ADDRESS: _____
 (Print) Number and Street

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PHONE NO.: _____
 (Print)

DATE OF BIRTH: / /
 (Print) Month / Day / Year

**Section 2: Module 1
Math**

**Section 2: Module 2 (Easier)
Math**

**Section 2: Module 2 (Harder)
Math**

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