Math tests

The SAT

Questionand-Answer Service

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The SAT and SAT Essay administered on your test day



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Math Test – No Calculator

25 MINUTES, 20 QUESTIONS

Turn to Section 3 of your answer sheet to answer the questions in this section.

DIRECTIONS

For questions 1-15, solve each problem, choose the best answer from the choices provided, and fill in the corresponding circle on your answer sheet. For questions 16-20, solve the problem and enter your answer in the grid on the answer sheet. Please refer to the directions before question 16 on how to enter your answers in the grid. You may use any available space in your test booklet for scratch work.

NOTES

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REFERENCE



$$A = \pi r^2$$
$$C = 2\pi r$$

$$A=\ell w$$

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

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





Special Right Triangles



$$V = \ell wh$$



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



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



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



$$V = \frac{1}{3} \ell w k$$

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.



Tobias rented a kayak from a sports equipment store. For the rental, the store charged \$60 per day plus \$25 for delivery. If Tobias was charged a total of \$325, for how many days did he rent the kayak?

- A) 3
- B) 5
- C) 7
- D)11

2

$$(2xy^2+3x-4)+(3xy^2-8x+4)$$

Which of the following is equivalent to the expression above?

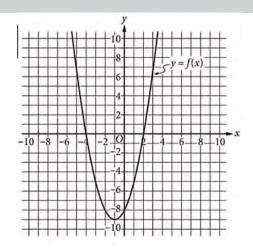
- A) $5xy^2 5x$
- B) $5xy^2 + 5x$
- C) $5xy^2-5x-8$
- D) $5xy^2 + 5x + 8$

3

The function f is defined by $f(x)=3^x$. What is the value of f(2)?

- A)5
- B)6
- C)8
- D)9

4



The graph of f is shown. According to the graph, what is the value of f(0)?

- A)-9
- B)-8
- C)-4
- D) 2



$$h(x) = -4(x-1)+2$$

The function h is defined above. For what value of x is h(x) = -2?

- A)-2
- B)-1
- C) 1
- D) 2

6

$$C = \frac{5}{9}(R-491.67)$$

The equation above expresses the temperature *C*, in degrees Celsius, in terms of the temperature R, in degrees Rankine. Which of the following expresses the temperature in degrees Rankine in terms of the temperature in degrees Celsius?

- A) $R = \frac{9}{5}C + 491.67$
- B) $R = \frac{9}{5} C 491.67$
- C) $R = \frac{5}{9} C + 491.67$
- D) $R = \frac{5}{9} C 491.67$

7

A geographer found that the land area of Aruba is 75 square miles and the land area of Bermuda is 19 square miles. Based on these data, the geographer used the equation 75x+19y = T to estimate the total number of residents, T, of the two islands. Which is the best interpretation of x in this context?

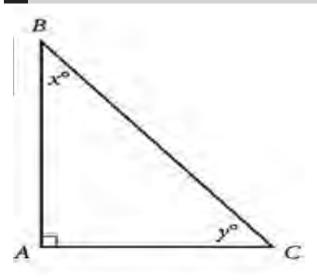
- A) The total number of residents of Aruba
- B) The number of square miles of Aruba
- C) The total number of residents of both islands
- D) The population density, in residents per square mile, of Aruba.



$$x^2-12x+35=0$$

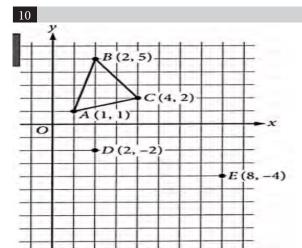
What is the sum of the solutions to the given equation?

- A)-35
- B)-12
- C) 12
- D) 35



In the right triangle *ABC* above, $sin(x^{\circ}) = \underline{5}$. What is the value of $cos(y^{\circ})$?

- A) $\frac{25}{64}$ B) $\frac{39}{64}$ C) $\frac{5}{8}$ D) $\frac{\sqrt{39}}{8}$



In the *xy*-plane above, if point *F* (not shown) is placed so that triangle ABC is similar to triangle DFE, which of the following could be the coordinates of the point F?

- A) (3,-6)
- B) (4,-10)
- C) (6,-7)
- D) (6,-1)

11

$$y=x+3$$
$$2x-y=0$$

Which of the following is the value of *y* in the solution (x,y) to the system of equations above?

- A) -6
- B) -3
- C) 3
- D) 6



$$A(t) = 50(2)^t$$

The function A(t) models the number of liters of a fluid in a tank after t hours. Which of the following models the number of liters of the fluid in the tank after m minutes?

A)
$$A(m)=50(2)^{\frac{m}{60}}$$

B)
$$A(m)=50(2)^{60m}$$

C)
$$A(m)=50(2)^{\frac{60}{m}}$$

D)
$$A(m)=50(2)^m$$

13

$$3x+8=kx+8$$

In the given equation, *k* is a constant. If the equation has exactly one solution, which of the following could NOT be the value of *k*?

- A) 0
- B) 1
- C) 3
- D) 8

14

How many solutions does the equation x(x-4)=(x-1)(x+1) have?

- A) Zero
- B) One
- C) Two
- D) More than two

15

$$2^{2/n}(^{n}\sqrt{3})$$

If *n* is a positive integer, which of the following is the equivalent to the expression above?

- A)3 $^{\frac{1}{n}}$
- B)18 $^{\frac{1}{n}}$
- C) ⁿ√6
- D) ⁿ√12



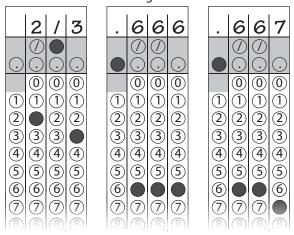
DIRECTIONS

For questions 16–20, solve the problem and enter your answer in the grid, as described below, on the answer sheet.

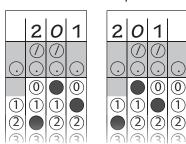
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- 2. Mark no more than one circle in any column.
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- Some problems may have more than one correct answer. In such cases, grid only one answer.
- 5. **Mixed numbers** such as $3\frac{1}{2}$ must be gridded as 3.5 or 7/2. (If 3|1|/2 is entered into the grid, it will be interpreted as $\frac{31}{2}$, not $3\frac{1}{2}$.)
- 6. **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.

	An	swe	r: 1	<u>/</u> 2		An	swe	r: 2	.5	
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	6	6	6	6		6	6	6	6	
		(7)	(7)	$\overline{(7)}$		(7)	(7)	$\overline{(7)}$	$\overline{(7)}$	
	(8)	(8)	8	(8)		(8)	(8)	(8)	(<u>8</u>)	
	9	9	9	9		9	9	9	9	

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



Answer: 201 – either position is correct



NOTE: You may start your answers in any column, space permitting. Columns you don't need to use should be left blank.



16

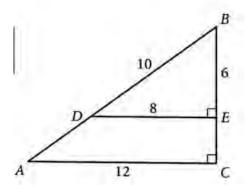
X	2	2	2
y	0	1	2

Several values of x and their corresponding values of y are shown in the table. A linear equation that represents the relationship shown in the table x=k, where k is a constant. What is the value of k?

17

If 12x+6=4x+8, what is the value of x?

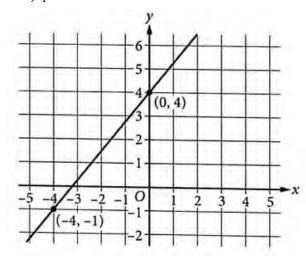
18



In the figure, triangles *ABC* and *DBE* are right triangles. What is cos *B*?

19

A system of two linear equations has no solutions. The graph of one of the equations in the system is shown in the *xy*-plane.



The second equation in the system is ax - y = 1, where a is a constant. What is the value of a?

20

X	0	1	2
f(x)	9	12	16

For the exponential function f, the table shows some values of x and the corresponding values of f(x). The function can be written in the form $f(x)=pr^x$, where p and r are constants. What is the value of r?

STOP

If you finish before time is called, you may check your work on this section only.

Do not turn to any other section.



Math Test – Calculator

55 MINUTES, 38 QUESTIONS

Turn to Section 4 of your answer sheet to answer the questions in this section.

DIRECTIONS

For questions 1-30, solve each problem, choose the best answer from the choices provided, and fill in the corresponding circle on your answer sheet. For questions 31-38, solve the problem and enter your answer in the grid on the answer sheet. Please refer to the directions before question 31 on how to enter your answers in the grid. You may use any available space in your test booklet for scratch work.

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REFERENCE



 $A = \pi r^2$ $C = 2\pi r$



 $A = \ell w$

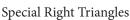


 $A = \frac{1}{2}bh$



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







 $V = \ell wh$



 $V = \pi r^2 h$



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





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.



$$2n = -22$$

What value of n satisfies the given equation?

- A) -44
- B) -11
- C) 11
- D) 44

2

The ratio of trumpets to violins in a particular music classroom is 1 to 3. If there are 9 trumpets in the classroom, how many violins are there?

- A) 2
- B) 3
- C) 9
- D) 27

Questions 3 and 4 refer to the following information.

Albedos of Various Earth Surfaces

Surface	Minimum	Maximum
	albedo	Albedo
Meadow	0.11	0.19
Crop	0.16	0.24
Dry soil	0.22	0.34
Desert	0.26	0.29
Snow	0.41	0.84

An albedo is the amount of light reflected from a surface divided by the amount of light falling on the surface. The amount is typically measured in watts per square meter. The table shows the minimum and maximum albedos for different types of surfaces on Earth.

3

For which of the following surfaces is the range of albedos the greatest?

- A) Meadow
- B) Crop
- C) Desert
- D) Snow

4

In a desert region, the amount of sunlight falling on a surface with an area of one square meter is 1,000 watts. Which of the following could be the amount of sunlight, in watts, reflected from this one-square-meter surface?

- A) 275
- B) 525
- C) 725
- D) 1,275



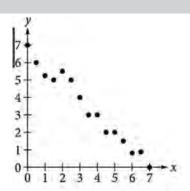
The table shows the distribution by breed and sex of dogs that received a vaccine from a veterinarian during the month of July.

	Se	X
Breed	Male	Female
Alaskan	6	2
malamute		
American	4	8
foxhund		

If a male dog that received a vaccine during the month of July is selected at random, what is the probability that the dog breed is Alaskan malamute?

- A) 0.30
- B) 0.40
- C) 0.60
- D) 0.75

6



Of the following, which is the most appropriate linear model for the given data?

A)
$$y = -7 + x$$

B)
$$y = -7 - x$$

C)
$$y = 7 + x$$

D)
$$y = 7 - x$$



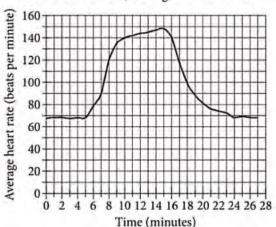
The area of a square is 36 square inches. What is the length, in inches, of a side of the square?

- A) 3
- B) 6
- C) 9
- D) 18

8

The graph shows the average heart rate for 15 people before, during, and after a period of strenuous exercise. The horizontal axis shows time, in minutes, and the vertical axis shows average heart rate, in beats per minute. The exercise period began at 5 minutes and ended at 15 minutes.

Heart Rate Before, During, and After Exercise



Approximately how many minutes did it take after the exercise period ended for the average heart rate to first return to the average heart rate before the exercise period began?

- A)9
- B) 15
- C) 24
- D) 27



Markela opens a bank account that earns interest at a rate of 2% compounded annually. She puts \$200 in the account when she opens it and does not make any more deposits into or withdrawals from the account for 2 years. If the amount of money in the account after 2 years is given by the expression $200(1.02)^2$, which of the following expressions gives the amount of money in the account after 1 year?

- A) 100(1.02)
- B) 200(1.02)
- C) $100(1.02)^2$
- D) 200(1.01)²

10

If 3x=8y and both x and y are positive, which of the following equals 40y?

- A) $\frac{3}{5}x$
- B) $\frac{5}{3}x$
- C) 5x
- D) 15x

Questions 11-13 refer to the following information.

T(n)=80+nS(n)=1,280+30n

The given equations model the number of teachers and students in a high school from 2002 through 2017. In the equations, n is the number of years after 2002, where n is a whole number less than or equal to 15. The predicted number of teachers and students are T(n) and S(n), respectively.

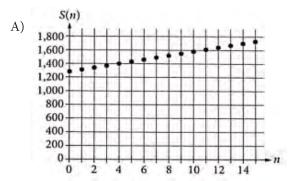
11

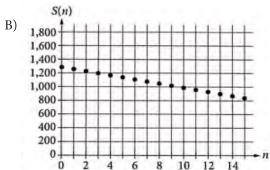
Based on the model, how many teachers are predicted to be in the high school in 2017?

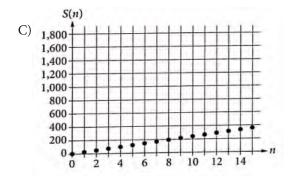
- A) 80
- B)90
- C) 95
- D) 100

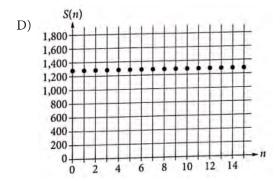


Which of the following is the graph of function *S*?









13

Based on the model, what is the first year in which the predicted number of teachers will be greater than 90?

- A) 2014
- B) 2013
- C) 2012
- D) 2011

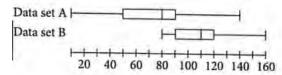
14

Type	Mass(kg)	Length(cm)
Leatherblack sea	650	210
Loggerhead sea	545	213
Green sea	500	140
Galápagos giant	400	187
Aldabra giant	360	150
Alligator snapping	183	81
Hawksbill sea	127	100
Black sea	126	100
Flatback sea	84	95

The table above shows the masses, in kilograms (kg), and lengths, in centimeters (cm), of the largest known specimens of the 9 most massive types of turtles and tortoises. The mean mass of the 9 turtles and tortoises is approximately 331kg. The mass of the Aldabra giant tortoise is closest to the mean mass. Which of the following is true about the length of the Aldabra giant tortoise in relation to the median length of the 9 turtles and tortoises?

- A) It is the median length.
- B) It is 29 cm longer than the median length.
- C) It is 10 cm longer than the median length.
- D) It is 10 cm shorter than the median length.





Each of the box plots shown summarizes a data set. Data set A has a range of 130, and data set B has a range of 80. If the two data sets are combined into one data set, what is the range of the combined data set?

- A) 50
- B) 105
- C)150
- D) 210

16

At the beginning of a study, the number of bacteria in a population is 150,000. The number of bacteria doubles every hour for a limited period of time. For this period of time, which equation models the number of bacteria *y* in this population after *x* hours?

- A) $y=150,000^{2x}$
- B) $y=150,000(2)^x$
- C) $y=x^2+150,000$
- D) $y=2x^2+150,000$

17

$$y=(x+3)(x-7)$$

$$y = x - 7$$

If (x,y) is a solution to the given system of equations, which of the following could be the value of x?

- A) -7
- B) -3
- C) 3
- D) 7

CONTINU



The speed of a lightning bolt is approximately 320 million feet per second. What is the speed, in <u>yards per minute?</u>(1 yard = 3 feet)

- A) 160 million
- B) 960 million
- C) 6,400 million
- D) 19,200 million

19

$$S(t) = 158t^2 - 771t + 10,268$$

The number of students enrolled in a certain university t years after 1969 can be modeled by the function S above, for $0 \le t \le 33$. The constant term 10,268 in the function is an estimate for which of the following?

- A) The number of students enrolled in 1969
- B) The number of students enrolled in 2002
- C) The number of additional students enrolled each year.
- D) The maximum number of students enrolled in a single year from 1969 through 2002



A company found that the average customer rating of a certain product can be used to estimate the total income from that product, according to the equation y=44x+500, where y is the income,in dollars, and x is the average customer rating. Which of the following best describes the slope of the graph of the equation in the xy-plane?

- A) For every increase of 44 in the average customer rating, the estimated increase in income is \$500.
- B) For every increase of 1 in the average customer rating, the estimated increase in income is \$544.
- C) For every increase of 1 in the average customer rating, the estimated increase in income is \$500.
- D) For every increase of 1 in the average customer rating, the estimated increase in income is \$44.

21

$$2x-y=3$$

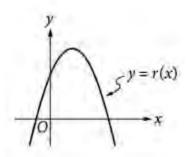
$$4x-y=3$$

How many solutions does the system of equations have?

- A) Zero
- B) Exactly one
- C) Exactly two
- D) Infinitely many



The graph of y=r(x) is shown in the xy-plane.



If a,b, and c are positive constants, which of the following could define the function r?

- A) $r(x) = -a(x-b)^2 + c$
- B) $r(x) = -a(x+b)^2 + c$
- C) $r(x) = a(x-b)^2 + c$
- D) $r(x)=a(x+b)^2+c$

23

$$\frac{x^2-2}{x-\sqrt{2}}$$

Which of the following is equivalent to the expression above for $x \neq \sqrt{2}$?

- A) x-1
- B) x+1
- C) $x \sqrt{2}$
- D) $x+\sqrt{2}$

47

CONTINUE



Which of the following represents the positive number r increased by 5%?

- A) 0.05r
- B) 0.95*r*
- C) 1.05r
- D) 5r

25

Value	Frequency
1	1
2	4
3	2
4	3
5	7

What is the median of the data set summarized in the frequency table?

- A) 2
- B) 3
- C) 4
- D) 5

26

An airplane uses approximately 5 gallons of fuel per mile flown. If the plane has 60,000 gallons of fuel at the beginning of a trip and flies at an average speed of 550 miles per hour, which of the following functions estimates the amount of remaining fuel A(t), in gallons, t hours after the trip began?

- A) A(t)=60,000-110t
- B) A(t)=60,000-550t
- C) $A(t) = \frac{60,000-550t}{5}$
- D) A(t)=60,000-2,750t

27

$$3x^2+bx+5=0$$

For the quadratic equation shown, *b* is a constant. If the equation has no real solutions, which of the following must be true?

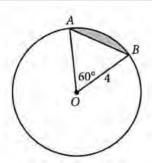
- A) $b^2 < 60$
- B) $b^2 > 60$
- C) b < 0
- D) b > 0



Lines q and r in the xy-plane are perpendicular and intersect at the origin. If line r passes through (1,k), what is the equation of line q?

- A) y=-kx
- B) $y = \frac{-x}{k}$
- C) $y = \frac{1-x}{k}$
- D) $y = x \frac{1}{k}$

29



In the figure above, the circle has center O. What is the area of the shaded region?

- A) $\frac{8\pi}{3}$
- B) $\frac{1}{3}(12\sqrt{3}-4\pi)$
- C) $\frac{1}{3}$ (8 π -8 $\sqrt{3}$)
- D) $\frac{1}{3}$ (8 π -12 $\sqrt{3}$)

30

A survey asked a class of 30 students how many siblings they have. The number of students who have one sibling is 3 times the number of students, n, who have two or more siblings. If 6 students have no siblings, which of the following equations represents this situation?

- A) $\frac{1}{3}$ n+6=30
- B) 3n+6=30
- C) 4n+6=30
- D)6n+6=30



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- 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.

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		7	7	7		7	7	7	7			
	(8) (9)	89	89	89		89	89	8 9	89			

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

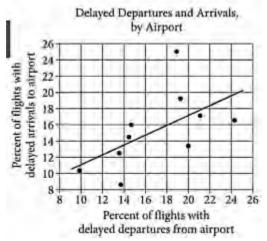
2	/	3	•	6	6	6		6	6	7
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0 1 1 2 • 3 3 4 4 5 5 6 6 7 7	01234567	① ① ① ② ④ ④ ⑤ ⑥ ⑦	1234567	0 1 2 3 4 5 6 7	0 1 2 3 4 5 6 7	0 1 2 3 4 5 7	1234567	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 2 3 4 5 7	① ① ① ② ③ ④ ⑤ ⑥ ●

Answer: 201 – either position is correct

	2	0	1	2	0	1	
	$)\bigcirc$	\bigcirc			\bigcirc	\bigcirc	
\odot	<u>··</u>		0	\odot		<u>···</u>	0
1	1	1		1	1		1
2	(M)	2	2		(2)	(2)	2

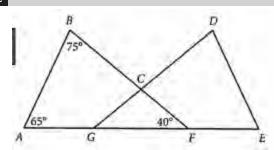
NOTE: You may start your answers in any column, space permitting. Columns you don't need to use should be left blank.





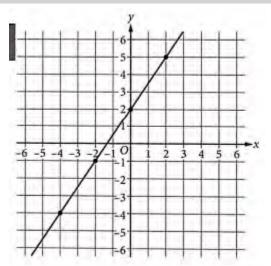
The scatterplot shows the percent of flights with delayed departures and the percent of flights with delayed arrivals, by departing airport, for 10 US airports in a certain one-year period. A line of best fit is also shown. For how many of the 10 airports was the percent of flights with delayed arrivals less than predicted by the line of best fit?

32



The points in the figure shown lie in the same plane. If $\triangle ABF$ is congruent to $\triangle EDG$, where $\angle A$ corresponds to $\angle E$ and $\angle B$ corresponds to $\angle D$, what is the measure, in degrees, of $\angle GCF$? (Disregard the degree symbol when gridding your answer.)

33



The graph of the equation y=mx+b, where m and b are constants, is shown in the xy-plane. What is the value of m?

34

Eyespot is a disease in corn that is caused by a fungus. An agricultural researcher investigated whether the presence of eyespot necessitated treatment of a cornfield using fungicide. The table shows the relationship between the presence of eyespot in a cornfield and the need to use fungicide.

	Fungicide needed	Fungicide not needed	Total
Eyespot observed	30	10	40
Eyespot not observed	15	8	23
Total	45	18	63

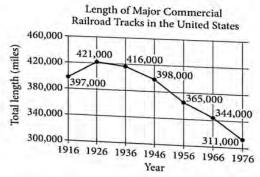
According to the table, what fraction of the cornfields where an eyespot was observed needed fungicide?



4

35

The line graph shows the total length, in miles, of major commercial railroad tracks in the United States from 1916 to 1976



The average rate of change, in miles per year, of the total length of major commercial railroad tracks in the United States from 1916 to 1926 is *m*. What is the value of *m*?

36

A painting crew painted a total of 20 houses in July. In August, the number of houses the crew painted was 20 percent more than the number of houses they painted in July. What fraction of the total number of houses the crew painted in July and August was painted in August?

37

A car was listed with a price of \$12,000. The price decreased by p% to \$9600. What is the value of p?

38

$$\left(\frac{1}{3}t+5\right)+\left(\frac{1}{2}u-4\right)=37$$

 $\left(\frac{1}{3}t+5\right)-\left(\frac{1}{2}u-4\right)=19$

For the system of equations above, what is the value of the product $(\frac{1}{3}t+5)(\frac{1}{2}u-4)$?

STOP

If you finish before time is called, you may check your work on this section only.

Do not turn to any other section.

SAT October 2020

ANSWER KEY

Reading Test Answers

1 C	12 B	23 A	34 B	45 D
2 B	13 A	24 D	35 C	46 B
3 B	14 B	25 C	36 B	47 A
4 A	15 B	26 C	37 C	48 A
5 D	16 D	27 A	38 A	49 A
6 B	17 A	28 B	39 D	50 C
7 D	18 C	29 D	40 A	51 D
8 A	19 C	30 A	41 B	52 C
9 C	20 D	31 D	42 D	
10 B	21 A	32 A	43 B	
11 D	22 D	33 A	44 C	

READING TEST RAW SCORE (NUMBER OF CORRECT ANSWERS)

Writing and Language Test Answers

1 B	12 D	23 C	34 D
2 D	13 B	24 D	35 A
3 D	14 A	25 B	36 C
4 B	15 B	26 C	37 D
5 C	16 C	27 D	38 B
6 C	17 A	28 A	39 C
7 B	18 A	29 D	40 D
8 A	19 B	30 B	41 A
9 D	20 C	31 A	42 A
10 C	21 B	32 B	43 D
11 A	22 D	33 B	44 D

WRITING AND LANGUAGE TEST RAW SCORE (NUMBER OF CORRECT ANSWERS)

Math Test No Calculator Answers

1 B	11 D
2 A	12 A
3 D	13 C
4 B	14 B
5 D	15 D
6 A	16 2
7 D	17 1/4, .25
8 C	18 3/5, .6
9 C	19 5/4, 1.25
10 B	20 4/3, 1.33

MATH TEST NO CALCULATOR RAW SCORE (NUMBER OF CORRECT ANSWERS)

Math Test Calculator Answers

1 B	11 C	21 B	31 6
2 D	12 A	22 A	32 100
3 D	13 B	23 D	33 1.5, 3/2
4 A	14 C	24 C	34 .75, 3/4
5 C	15 C	25 C	35 2400
6 D	16 B	26 D	36 6/11, .545
7 B	17 D	27 A	37 20
8 A	18 C	28 B	38 252
9 B	19 A	29 D	
10 D	20 D	30 C	

MATH TEST CALCULATOR RAW SCORE (NUMBER OF CORRECT ANSWERS)