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All Questions			
	1,943	232	96.6%
English			
	300	78	92.3%
- Punctuation			
	20	5	100.0%
- Grammar and Usage			
	121	21	85.7%
- Sentence Structure			
	73	17	82.4%
- Strategy			
	20	8	100.0%
- Organization			

SAT practice test

1) If $2x + 7 = 13$, what is $4x - 7$?
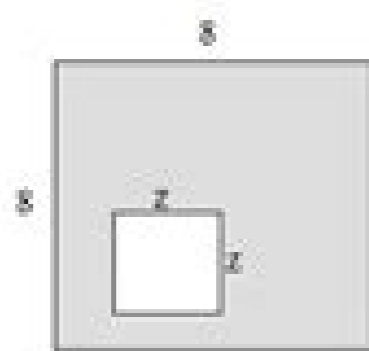
   a) 3
   b) 5
   c) 7
   d) −3
   e) −5

2) The mean of x and y is 9. And, the mean of x, y, and z is 11. What is z?

   a) 9
   b) 10
   c) 11
   d) 13
   e) 15

3) What is the area of the shaded region?

(The figure is a square inside a square)

   a) $16 + 2z$
   b) $32 - 4z$
   c) $64 + z^2$
   d) $64 - z^2$
   e) $32 - z^2$

4) Team "hoops" scored 1/4 of their points in the 1st quarter; 1/3 of their points in the 2nd quarter; 1/5 of their points in the 3rd quarter.
If they finished with 60 points, how many did they score in the 4th quarter?
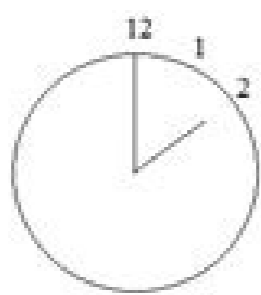
   a) 12
   b) 13
   c) 14
   d) 15
   e) 16

5) $2^{2x+1} = 8^{x-1}$ Find x:

   a) −1
   b) 2
   c) 4
   d) 1/2
   e) 2/3

ACT Practice Test 2

21) What is the degree measure of the angle formed by hands of a clock indicating 2:00 ?

   a) 30
   b) 40
   c) 45
   d) 60
   e) 75

22) How many prime factors does 66 have?

   a) 1
   b) 2
   c) 3
   d) 4
   e) 5

23) What is $(x - 5)^2$?

   a) $x^2 - 25$
   b) $x^2 + 25$
   c) $x^2 + 10x - 5$
   d) $x^2 - 10x + 10$
   e) $x^2 - 10x + 25$

24) Which equation describes the following graph?
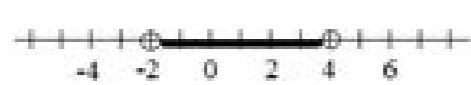
   a) $|x - 1| < 3$
   b) $|x - 1| > 3$
   c) $|x - 3| < 1$
   d) $|x + 3| < 1$
   e) $|x + 2| < 6$

25) In the geometric sequence 3, 1, x, 1/9, y, 1/81, ... , what is $x + y$?

   a) 10/27
   b) 4/27
   c) 1/3
   d) 3
   e) 2/9

(note: a geometric sequence has a constant ratio between terms. In other words, each term divided by its predecessor has the same result.)

Each math section of the SAT will provide you with the following formulas.
Note: The ACT does not provide formulas.

Other important geometric formulas.

$A = \pi r^2$
$C = 2\pi r$
$A = \ell w$
$A = \frac{1}{2}bh$
$c^2 = a^2 + b^2$

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.

Arclength $= \frac{x^\circ}{360^\circ} \cdot 2\pi r$

Area of Sector $= \frac{x^\circ}{360^\circ} \cdot \pi r^2$

Parallelogram

$A = $ like rectangle $= bh$

Trigonometry

$Sine(x) = \frac{Opposite}{Hypotenuse}$ SohCahToa

$Cosine(x) = \frac{Adjacent}{Hypotenuse}$

$Tangent(x) = \frac{Opposite}{Adjacent}$

Other important formulas you will need to know for the SAT & ACT are:

slope $= m = \frac{rise}{run} = \frac{y_2 - y_1}{x_2 - x_1}$ line: $y = mx + b$ (m = slope, b = y-intercept)   Midpoint: $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$

variation: $y = kx$ (direct) $y = \frac{k}{x}$ (inverse)   Distance (use Pythagorean): $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

difference of squares: $x^2 - y^2 = (x + y)(x - y)$

2, 4, 6, 8 … arithmetic sequence: $a_n = a_1 + (n-1)d$ 2+4+6+8+10 … arithmetic series: $S_n = \frac{n}{2}(a_1 + a_n)$
a_n = value of final term, a_1 = value of first term, n = term, d = difference

3, 9, 27, 81 … geometric sequence: $t_n = t_1(r)^{n-1}$ 2+4+8+16 … geometric series: $S_n = a_1\frac{1 - r^n}{1 - r}$
t_n = value of final term, t_1 = value of first term, n = term, r = multiplier

simple interest: $A = P(1 + rt)$ A = Amount, P = initial amt., t = time in years

compound interest: $A = P\left(1 + \frac{r}{n}\right)^{nt}$ A = Amount, P = initial amt., t = annual interest, n = compounding per year, t = time in years

exponential growth: $A = P(B)^{\frac{t}{k}}$ A = Amount, P = initial amt, B = multiplier, t = time in years, n = growth every n years

Key Mathematical Terms:

is	= equal
sum	+ sum
difference	− subtraction
product , of	× multiplication
quotient, how many times greater	÷ division
solution set	solve for x
imaginary number	i or square root of -1
prime	a number greater than 1 that can be only divided by itself and 1 (2, 3, 5, 13, etc.)
integer	a number that does not contain a decimal value (-1, 0, 1, 500, etc.)
consecutive integer	an adjacent integer (2, 3, 4, etc.)
rational number	number that is a ratio of integers (1/2, 2/3)
irrational number	number that is not a ratio of integers (π)
real numbers	any number besides an imaginary number
median	the middle value in an ordered list
arithmetic mean or mean	average
mode	the most occurring value in a list
undefined	any value divided by 0
Soh	Sin(angle θ) = opposite / hypotenuse
Cah	Cos(angle θ) = adjacent / hypotenuse
Toa	Tan(angle θ) = opposite / hypotenuse

Conics

Parabola $y = a(x - h)^2 + k$
Circle $x^2 + y^2 = r^2$
Ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$
Hyperbola $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$

vertex form of parabola: $y = a(x - h)^2 + k$ $\left(\frac{-b}{2a}, f\left(\frac{-b}{2a}\right)\right)$

Quadratics ($ax^2 + bx + c$)
4 main ways to solve quadratics:

Factoring (easy & fast but doesn't always work)
$x^2 - 3x - 18 = 0 \rightarrow (x - 6)(x + 3) = 0$
$x - 6 = 0, x + 3 = 0 \rightarrow x = 6, x = -3$

Quadratic formula (works all the time, but time-consuming)
$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Complete the Square (best in limited situations)
1) make a =1
2) move c to the other side
3) half and square b to get new c
4) add new c to both sides of equation
5) factor the trinomial
6) solve for x

Graphing (fast when allowed calculator)

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