

Chang Learning	SAT Lesson 1: SAT Overview, Basic Algebra Review
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Scholastic Achievement Test (SAT)
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For those interested in pursuing higher education, the SAT is still considered to be the benchmark exam as a metric for student academic progress. In the past few years, the number of seniors taking the SAT in the United States has increased from 1 to over 1.7 million. The mathematics questions on the SAT are contained in two sections:

Section 3	Section 4
20 Questions	38 Questions
25 Minutes	55 Minutes
No Calculator	Calculator
15 Multiple Choice	30 Multiple Choice
5 Grid In Questions	8 Grid In Questions

According to most sources, the SAT contains the following topics in the 58 test questions:

Topic	Subtopic	3	4
Algebra	Linear Equations	40%	30%
	Systems of Equations		
	Linear Inequalities		
Problem Solving & Data Analysis	Ratios & Proportions	0%	45%
	Representing Quantitative Data		
	Probability		
Passport to Advanced Mathematics	Equivalent Algebraic Expressions	45%	15%
	Quadratic & Nonlinear Functions		
Geometry	Area & Volume	15%	10%
	Polygons, Circles		

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The test questions are a combination of algebraic expressions, algebraic equations, word problems and graphics. Each section follows an “easy to hard” level of difficulty. The **MULTIPLE CHOICE** questions and **GRID-IN** questions are grouped from easy to hard (below ranked as question types “level 1 to 5”).

Section 3	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <tr><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>2</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>0</td></tr> <tr><td>1</td><td>1</td><td>1</td><td>2</td><td>1</td><td>3</td><td>1</td><td>1</td><td>1</td><td>2</td><td>2</td><td>4</td><td>3</td><td>5</td><td>5</td><td>1</td><td>1</td><td>3</td><td>5</td><td>4</td></tr> </table>	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	1	1	2	1	3	1	1	1	2	2	4	3	5	5	1	1	3	5	4
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


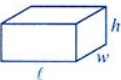


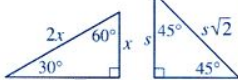
This is important for time management on the SAT. If you are short on time, then it is important to answer as many SAT questions as possible. You can **SKIP** the end subsection questions and jump to the first **GRID-IN** questions and complete them first. Then, if time permits, go and complete the hard level questions at the end of each subsection.

The breakdown of the SAT Mathematics Sections

	Easy	Difficult	Easy	Difficult
Section 3	#1 to 10	#11 to 15	#16 to 17	#18 to 20
Section 4	#1 to 20	#21 to 30	#31 to 34	#35 to 38

Chang Learning SAT Lesson 1: SAT Overview, Basic Algebra Review

Most of the important mathematics formulas are included on the first page of each section, the SAT formula sheet. Note that not all the formulas that are on the test are provided there. Below the page are more common formulas and mathematics facts that should be known as you prepare for the SAT.

SAT Formula Sheet	
Notes	<ol style="list-style-type: none"> 1. The use of a calculator is permitted. 2. All numbers used are real numbers. 3. 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. 4. 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	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>$A = \pi r^2$ $C = 2\pi r$</p> </div> <div style="text-align: center;">  <p>$A = \ell w$</p> </div> <div style="text-align: center;">  <p>$A = \frac{1}{2}bh$</p> </div> <div style="text-align: center;">  <p>$V = \ell wh$</p> </div> <div style="text-align: center;">  <p>$V = \pi r^2 h$</p> </div> <div style="text-align: center;">  <p>$c^2 = a^2 + b^2$</p> </div> <div style="text-align: center;">  <p>Special Right Triangles</p> </div> </div> <p>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.</p>

Quadratic Formula	$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;"> $i = \sqrt{-1} \quad i^2 = -1$ </div>	Measurement	<p>1 inch = 2.54 centimeters 1 meter = 100 centimeters 1 kilometer = 1000 meters 1 yard = 3 feet 1 mile = 5280 feet 1 kilometer = 0.62 miles</p>
Special Factors	$(a + b)(a + b) = a^2 + 2ab + b^2$ $(a - b)(a - b) = a^2 - 2ab + b^2$ $(a + b)(a - b) = a^2 - b^2$		<p>8 ounces = 1 cup 1 pint = 2 cups 1 quart = 2 pints 1 gallon = 4 quarts 1 liter = 1000 milliliters</p>
Trigonometry	$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$ $\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$ $\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$ $\pi \text{ radians} = 180^\circ$		<p>1 minute = 60 seconds 1 hour = 60 minutes 1 day = 24 hours 1 week = 7 days 1 year = 365 days (leap year every 4 yrs.) 1 decade = 10 years 1 century = 100 years</p>
	$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$ $c^2 = a^2 + b^2 - 2ab(\cos C)$		<p>1 pound = 16 ounces 1 pound = 454 grams 1 kilogram = 2.2 pounds 1 ton = 2000 pounds 1 metric ton = 1000 kilos</p>

Basic Algebra Review

Example 1: Using PEMDAS

<p>P lease E xcuse M y D ear A unt S ally</p> <p>Or</p> <p>P andas E at M ustard D umplings & A pple S auce</p>	<p>Examples:</p> $2(15 - 2) \div 4 + 3^2 * (4 \div 12) - 1.5 =$ $2(13) \div 4 + 3^2 * (1/3) - 1.5 =$ $2(13) \div 4 + 9 * (1/3) - 1.5 =$ $26 \div 4 + 3 - 1.5 =$ $6.5 + 3 - 1.5 =$ $9.5 - 1.5 =$ $8.$ $[35(2^3 - 6) - 7(1 + 2 + 3)] \div 2 =$ $[35(8 - 6) - 7(1 + 2 + 3)] \div 2 =$ $[35(8 - 6) - 7(6)] \div 2 =$ $[35(2) - 7(6)] \div 2 =$ $[70 - 42] \div 2 =$ $[28] \div 2 =$ $14.$	<p>Examples:</p> <p>Parenthesis Exponents Multiply Divide Add Subtract</p> <p>Parenthesis: Exponent Add & Subtract Multiply Subtract Divide</p>
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Example 2: Proportions and Cross Multiplication

<p>If $\frac{1}{3x-1} = \frac{2}{x}$, then $x = ?$</p>	<p>A) $2/5$ B) 2 C) $5/2$ D) 3</p>
<p>Solution:</p> $\frac{1}{3x-1} = \frac{2}{x}$ <p>Cross multiply. Then</p> $1x = 2(3x - 1) \quad \text{Distribute}$ $1x = 6x - 2$ $-5x = -2$ $x = 2/5$	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p>Answer: A) 2/5</p> </div>

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SAT Lesson #1 Classwork: Basic Algebra Review
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<p>1. Simplify the expression below</p> $[100 - 2(5 + 6^2 - 7)] \div 3$	<p>A) $26\frac{2}{3}$ B) $18\frac{1}{3}$ C) $10\frac{2}{3}$ D) $7\frac{1}{3}$</p>
<p>2. If $a^5 + 15 = 47$, then what is a ?</p>	<p>A) 2 B) 1 C) -1 D) -2</p>
<p>3. What are the possible values for c in the equation below ?</p> $\frac{c^2+1}{34} = \frac{ 4c+1 }{2c^2+2}$	<p>A) -4 only B) +4 only C) -4 and +4 D) -1 and -1</p>
<p>4. What is the solution set to the inequality</p> $\sqrt{x-9} \geq 3$	<p>A) $x > 18$ B) $x < 18$ C) $x \geq 18$ D) $x \leq 18$</p>
<p>5. If $W = \frac{abc}{5}$ then what is b in terms of a, c and w?</p>	<p>A) $\frac{5W}{ac}$ B) $\frac{5ac}{W}$ C) $\frac{ac}{5W}$ D) $\frac{5}{Wac}$</p>

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SAT Lesson #1: Classwork (continued)

<p>6. When given $a = 2, b = 5$ and $c = 7$, what is</p> $abc - 2\left(\frac{a}{4}\right)^2(c - 1)$	<p>A) 58 B) 64 C) 66 D) 67</p>
<p>7. McCoy Max Speed, Inc. makes custom skateboards for its customers. Two wooden skateboards and three composite skateboards cost \$650. Three wooden skateboards and one composite skateboard cost \$450. How much would McCoy Max Speed charge a customer who purchases five wooden skateboards and four composite skateboards?</p>	<p>A) \$500 B) \$600 C) \$1,000 D) \$1,100</p>
<p>8. Bailey's Boutique Clothing is having a 20% off sale during which shirts cost \$30.00 and pants cost \$60.00. On the day of the sale, Bailey's sold a total of 60 shirts and pants and earned a total of \$2,250. On a regular day, Bailey's sells $\frac{2}{3}$ the number of shirts and pants sold during the sale and earns a total of \$1,875. Solving which of the following systems of equations yields the number of shirts, s, and the number of pants, p, sold during a regular day?</p>	<p>A) $s + p = 40$ $37.5s + 75p = 1,875$ B) $s + p = 40$ $30s + 60p = 2,250$ C) $s + p = 60$ $30s + 60p = 2,250$ D) $s + p = 2,250$ $30s + 60p = 60$</p>
<p>9. Simplify:</p> $\frac{(8-a)(8+a)}{(20a+16)} * \frac{(15a+12)}{-(a-8)}$	<p>A) $\frac{3(8-a)}{-4}$ B) $\frac{3(8-a)}{-4}$ C) $\frac{3(8+a)}{4}$ D) $\frac{3(8+a)}{-4}$</p>
<p>10. If $f(x) = x^2 + x - 12$ and $g(x) = x + 1$ then what is $f(g(7))$?</p>	<p>A) 44 B) 45 C) 60 D) 70</p>

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SAT Lesson #1: Classwork SAT Exams

<p>11. If $\frac{x-1}{3} = k$ and $k = 3$, what is the value of x ?</p>	<p>A) 2 B) 4 C) 9 D) 10</p>
<p>12. On Saturday afternoon, Armand sent m text messages each hour for 5 hours, and Tyrone sent p text messages each hour for 4 hours. Which of the following represents the total number of messages sent by Armand and Tyrone on Saturday afternoon ?</p>	<p>A) $9mp$ B) $20mp$ C) $5m + 4p$ D) $4m + 5p$</p>
<p>13. Which of the following is equivalent to the expression below ?</p> $(x^2y - 3y^2 + 5xy^2) - (-x^2y + 3xy^2 - 3y^2)$	<p>A) $4x^2y^2$ B) $8xy^2 - 6y^2$ C) $2x^2y + 2xy^2$ D) $2x^2y + 8xy^2 - 6y^2$</p>
<p>14. If $\frac{a}{b} = 2$, what is the value of $\frac{4b}{a}$?</p>	<p>A) 0 B) 1 C) 2 D) 4</p>
<p>15. For the function g defined below, a is a constant and $g(4) = 8$. What is the value of $g(-4)$?</p>	<p>A) 8 B) 0 C) -1 D) -8</p>

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SAT Lesson #1: Classwork SAT Exams (continued)

<p>16. If $x > 3$, which of the following is equivalent to</p> $\frac{1}{\frac{1}{x+2} + \frac{1}{x+3}} \quad ?$	<p>A) $\frac{2x+5}{x^2+5x+6}$</p> <p>B) $\frac{x^2+5x+6}{2x+5}$</p> <p>C) $2x + 5$</p> <p>D) $x^2 + 5x + 6$</p>		
<p>17. If $3x - y = 12$, what is the value of $\frac{8^x}{2^y}$?</p>	<p>A) 2^{12}</p> <p>B) 2^{12}</p> <p>C) 2^{12}</p> <p>D) The value cannot be determined from the information given.</p>		
<p>18. If $y = kx$, where k is a constant, and $y = 24$ when $x = 6$, what is the value of y when $x = 5$?</p>	<p>A) 6</p> <p>B) 15</p> <p>C) 20</p> <p>D) 23</p>		
<p>19. If $16 + 4x$ is 10 more than 14, what is the value of $8x$?</p>	<p>A) 2</p> <p>B) 6</p> <p>C) 16</p> <p>D) 80</p>		
<p>20. A hospital stores one type of medicine in 2-decagram containers. Based on the information given in the box above, how many 1-milligram doses are there in one 2-decagram container ?</p> <table border="1" style="margin: 10px auto; border-collapse: collapse; width: 80%;"> <tr> <td style="padding: 5px; text-align: center;">1 decagram = 10 grams</td> </tr> <tr> <td style="padding: 5px; text-align: center;">1,000 milligrams = 1 gram</td> </tr> </table>	1 decagram = 10 grams	1,000 milligrams = 1 gram	<p>A) 0.002</p> <p>B) 200</p> <p>C) 2,000</p> <p>D) 20,000</p>
1 decagram = 10 grams			
1,000 milligrams = 1 gram			

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SAT Lesson #1: Classwork SAT Exam Grid-In (continued)

21. If $t > 0$ and $t^2 - 4 = 0$, what is the value of t ?	Grid-In:
22. If $a = 5\sqrt{2}$ and $2a = \sqrt{2x}$, what is the value of x ?	Grid-In:
23. Wyatt can husk at least 12 dozen ears of corn per hour and at most 18 dozen ears of corn per hour. Based on this information, what is a possible amount of time, in hours, that it could take Wyatt to husk 72 dozen ears of corn ?	Grid-In:
24. For what value of x is the function h below undefined ? $h(x) = \frac{1}{(x-5)^2 + 4(x-5) + 4}$	Grid-In:
25. Carol opened a bank account that earns 2 percent interest compounded annually. Her initial deposit was \$100, and she uses the expression $\$100(x)^t$ to find the value of the account after t years. What is the value of x in the expression ?	Grid-In:

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SAT Lesson #1 Homework: Basic Algebra Review
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<p>1. Simplify the expression below</p> $[100 - 7(\frac{2^4}{3-1})] \div 6$	<p>A) $26\frac{2}{3}$ B) $18\frac{1}{3}$ C) $10\frac{2}{3}$ D) $7\frac{1}{3}$</p>
<p>2. If $-4a^3 + 11 = 43$, then what is a ?</p>	<p>A) 2 B) 1 C) -1 D) -2</p>
<p>3. What are the possible values for c in the equation below ?</p> $\frac{(-c)^2+1}{34} = \frac{ -4c+1 }{2c^2+2}$	<p>A) -4 only B) +4 only C) -4 and +4 D) -1 and -1</p>
<p>4. What is the solution set to the inequality</p> $0 \leq \sqrt{x-16} < 4$	<p>A) $0 \leq x < 16$ B) $16 \leq x < 20$ C) $16 \leq x < 24$ D) $16 \leq x < 32$</p>
<p>5. If $W = \frac{abc}{5}$ then what is a in terms of b, c and w?</p>	<p>A) $\frac{5W}{bc}$ B) $\frac{5bc}{W}$ C) $\frac{bc}{5W}$ D) $\frac{5}{Wbc}$</p>

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SAT Lesson #1: Homework (continued)

<p>6. When given $a = 2, b = 5$ and $c = 7$, what is</p> $abc - 3\left[\left(\frac{a+2}{4}\right)^2(c - 1)\right]$	<p>A) 46 B) 52 C) 54 D) 55</p>
<p>7. McCoy Max Speed, Inc. makes custom skateboards for its customers. Two wooden skateboards and five composite skateboards cost \$900. Three wooden skateboards and two composite skateboards cost \$750. How much would McCoy Max Speed charge a customer who purchases five wooden skateboards and seven composite skateboards?</p>	<p>A) \$1,150 B) \$1,400 C) \$1,500 D) \$1,650</p>
<p>8. Bailey's Boutique Clothing is having a 20% off sale during which shirts cost \$30.00 and pants cost \$60.00. On the day of the sale, Bailey's sold a total of 90 shirts and pants and earned a total of \$2,250. On a regular day, Bailey's sells $\frac{2}{3}$ the number of shirts and pants sold during the sale and earns a total of \$1,875. Solving which of the following systems of equations yields the number of shirts, s, and the number of pants, p, sold during a regular day?</p>	<p>A) $s + p = 60$ $37.5s + 75p = 1,875$ B) $s + p = 60$ $30s + 60p = 2,250$ C) $s + p = 90$ $30s + 60p = 2,250$ D) $s + p = 2,250$ $30s + 60p = 80$</p>
<p>9. Simplify:</p> $\frac{(8-a)(8+a)}{(20a+16)} * \frac{(15a+12)}{(64-a^2)}$	<p>A) $\frac{3}{-5}$ B) $\frac{3}{5}$ C) $\frac{3}{4}$ D) $\frac{4}{-5}$</p>
<p>10. If $f(x) = x^2 + x - 12$ and $g(x) = x + 1$ then what is $g(f(7))$?</p>	<p>A) 44 B) 45 C) 60 D) 70</p>

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SAT Lesson #1: Homework SAT Exams

<p>11. If $5x + 6 = 10$, what is the value of $10x + 3$?</p>	<p>A) 4 B) 9 C) 11 D) 20</p>
<p>12. Which of the following ordered pairs (x,y) satisfies the system of equations below ?</p> $\begin{aligned}x + y &= 0 \\ 3x - 2y &= 10\end{aligned}$	<p>A) (3,-2) B) (2,-2) C) (-2,2) D) (-2,-2)</p>
<p>13. Which of the following is equivalent to the expression below ?</p> $9a^4 + 12a^2b^2 + 4b^4$	<p>A) $(3a^2 + 2b^2)^2$ B) $(3a + 2b)^4$ C) $(9a^2 + 4b^2)^2$ D) $(9a + 4b)^4$</p>
<p>14. If $k > 0$ and $x = 7$ in the equation below, what is the value of k ?</p> $\sqrt{2k^2 + 17} - x = 0$	<p>A) 2 B) 3 C) 4 D) 5</p>
<p>15. If $\frac{x^{a^2}}{x^{b^2}} = x^{16}$, $x > 1$ and $a + b = 2$, what is the value of $a - b$?</p>	<p>A) 8 B) 14 C) 16 D) 18</p>

Chang Learning SAT Lesson 1: SAT Overview, Basic Algebra Review
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SAT Lesson #1: Homework SAT Exams (continued)

<p>16. A website uses the formula above to calculate a seller's rating, R, based on the number of favorable reviews, F, and unfavorable reviews, N. Which of the following expresses the number of favorable reviews in terms of the other variables ?</p> $R = \frac{F}{N+F} \quad ?$	<p>A) $F = \frac{RN}{R-1}$ B) $F = \frac{RN}{1-R}$ C) $F = \frac{N}{1-R}$ D) $F = \frac{N}{R-1}$</p>
<p>17. The expression $\frac{5x-2}{x+3}$ is equivalent to which of the following ?</p>	<p>A) $\frac{5-2}{3}$ B) $5 - \frac{2}{3}$ C) $5 - \frac{2}{x+3}$ D) $5 - \frac{17}{x+3}$</p>
<p>18. When 4 times the number x is added to 12, the result is 8. What number results when 2 times x is added to 7 ?</p>	<p>A) -1 B) 5 C) 8 D) 9</p>
<p>19. The equation below represents a parabola in the xy-plane. Which of the following equivalent forms of the equation displays the x-intercepts of the parabola as constants or coefficients ?</p> $y = x^2 - 6x + 8$	<p>A) $y - 8 = x^2 - 6x$ B) $y + 1 = (x - 3)^2$ C) $y = x(x - 6) + 8$ D) $y = (x - 2)(x - 4)$</p>
<p>20. At a large distance r from a radio antenna, the intensity of the radio signal I is related to the power of the signal P by the formula below. Which of the following expresses the square of the distance from the radio antenna in terms of the intensity of the radio signal and the power of the signal ?</p> $I = \frac{P}{4\pi r^2}$	<p>A) $r^2 = \frac{IP}{4\pi}$ B) $r^2 = \frac{P}{4\pi I}$ C) $r^2 = \frac{4\pi I}{P}$ D) $r^2 = \frac{I}{4\pi P}$</p>

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SAT Lesson #1: Homework SAT Exam Grid-In (continued)

<p>21. The sales manager of a company awarded a total of \$3000 in bonuses to the most productive salespeople. The bonuses were awarded in amounts of \$250 or \$750. If at least one \$250 bonus and at least one \$750 bonus were awarded, what is one possible number of \$250 bonuses awarded ?</p>	Grid-In:
<p>22. A coastal geologist estimates that a certain country's beaches are eroding at a rate of 1.5 feet per year. According to the geologist's estimate, how long will it take, in years, for the country's beaches to erode by 21 feet ?</p>	Grid-In:
<p>23. If h hours and 30 minutes is equal to 450 minutes, what is the value of h ?</p>	Grid-In:
<p>24. In one semester, Doug and Laura spent a combined 250 hours in the tutoring lab. If Doug spent 40 more hours in the lab and Laura did, how many hours did Laura spend in the lab ?</p>	Grid-In:
<p>25. Jane made an initial deposit to a savings account. Each week thereafter she deposited a fixed amount to the account. The equation below models the amount a, in dollars, that Jane has deposited after t weekly deposits. According to the model, how many dollars was Jane's initial deposit ? (Disregard the \$ sign when gridding your answer.)</p> $a = 18t + 15$	Grid-In:

Chang Learning SAT Lesson 1: SAT Overview, Basic Algebra Review

Extra Credit Challenge Questions:

SAT Level 1

1. $(x+y+3)(x+y-3) =$	A) $x^2 + y^2 - 3^2$ B) $(x+y)^2 + 6(x+y) + 9$ C) $(x+y)^2 + 6(x+y)$ D) $(x+y)^2 - 9$ E) $x^2 + 2xy + y^2 + 3^2$
2. If $a = -3$, then $(a+6)(a-3) =$	A) -18 B) 18 C) 0 D) 27 E) -54
3. If $\frac{1}{2}x - 2x = 3x - 9$, then $x =$	A) -6 B) 2 C) 6 D) $\frac{1}{2}$ E) 3
4. If $2n + m = 10$ and $3n - m = -5$, then $m =$	A) 6 B) 1 C) 8 D) 4 E) 2
5. What is the y-intercept of the graph of $3x + 4y = 24$?	A) $(0, 24)$ B) $(0, 6)$ C) $(0, 8)$ D) $(0, 4)$ E) $(0, 2)$

Chang Learning SAT Lesson 1: SAT Overview, Basic Algebra Review
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Extra Credit Challenge Questions:
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SAT Level 2

1. If $f(t) = 3t^2 - 8t + 1$, then $f(3) - f(2) =$	A) 7 B) 4 C) -3 D) -4 E) -7	
2. When $n = 5$, which of the following is greatest ?	A) $\frac{6}{n}$ B) $\frac{6}{n+1}$ C) $\frac{6}{n-1}$ D) $\frac{n}{6}$ E) $\frac{n+2}{6}$	
3. If $ x - 2 = 9$, which of the following could equal $ x + 3 $?	A) 4 B) 7 C) 8 D) 10 E) 11	
4. A water balloon is dropped from a window 40 feet above ground level. The balloon's height $h(t) = -16t^2 + 40$. How many seconds after the water balloon is dropped will it be 20 feet above ground level ?	A) 0.89 B) 1.12 C) 1.25 D) 1.58 E) 2.00	
5. Which of the following integers is a counterexample to the statement below ?	A) 15 B) 17 C) 19 D) 23 E) 25	
<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> "If n is a number such that $n - 2$ and $n + 2$ are both prime numbers, then n is a prime number." </td> </tr> </table>	"If n is a number such that $n - 2$ and $n + 2$ are both prime numbers, then n is a prime number."	
"If n is a number such that $n - 2$ and $n + 2$ are both prime numbers, then n is a prime number."		