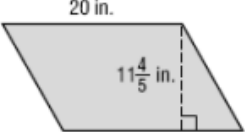
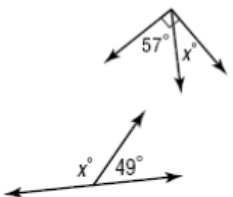
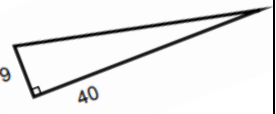

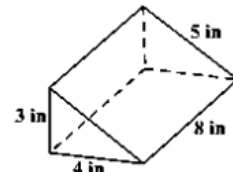
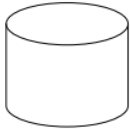
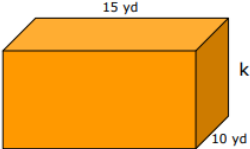
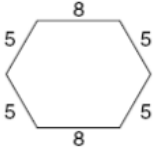

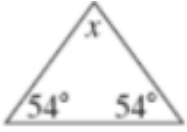
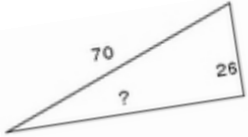


Summer Math Calendar for Students Entering 8th Grade - July

<p>1. Evaluate: $+ 3b$ if $b = 7$</p> <p>Evaluate: $\frac{n^2}{3}$ if $n = 9$</p>	<p>6</p> <p>2. Perform the operations:</p> <p>$6 + -9 =$ $-2 - 3 =$ $-3 * 4 =$ $16 \div -4 =$</p>	<p>3. Write each phrase as an algebraic expression:</p> <ul style="list-style-type: none"> • 7 less than m • The quotient of 3 and y • 4 years younger than Jessica • 3 times as many marbles as Bob 	<p>4. Find the area:</p> 	<p>5. Solve the equations:</p> <p>$x - 9 = -12$</p> <p>$48 = -6r$</p>	<p>6. Find the value of x for each missing angle.</p> 	<p>7. Fill in the table below using $y = 2+10x$</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr> <td>-2</td> <td></td> </tr> <tr> <td>1</td> <td></td> </tr> <tr> <td>4</td> <td></td> </tr> </tbody> </table>	x	y	-2		1		4	
x	y													
-2														
1														
4														
<p>8. Use the distributive property to simplify:</p> <p>$3(y + 3)$</p> <p>$-4(6 - 2x)$</p> <p>$\frac{1}{2}(6x + 9)$</p>	<p>9. Determine how many combinations of burgers you have at your next cookout if you have 2 types of burger, 2 cheeses, and 6 condiments.</p>	<p>10. Solve the equations:</p> <p>$2t + 7 = -1$</p> <p>$4t + 3.5 = 11.5$</p>	<p>11. A garden the shape of a triangle has an area of 875 square feet. The garden is 35 feet long. Determine the width of the garden at its widest point.</p>	<p>12. Combine like terms to simplify:</p> <p>$3a + b - 4 + 7a + 5b$</p> <p>$-x + y + 6x + 4z - 8y$</p>	<p>13. Perform the operations:</p> <p>$16 + -9 =$ $-12 - 3 =$ $-5 * -4 =$ $-18 \div -6 =$</p>	<p>14. Evaluate: $5(6) - c$ if $c = 7$</p> <p>Evaluate: ab^3c if $a = 3, b = 2, \& c = 5$</p>								
<p>15. Without parentheses the expression $8 + 30 \div 2 + 4$ equals 27. Place parentheses in the expression so it equals 13, then 23.</p>	<p>16. Use the Pythagorean Theorem to find the missing side length.</p> 	<p>17. The time shown on the clock is 11:05. Starting at this time, approximately what time will it be when the hands form an obtuse angle?</p> 	<p>18. Perform the operations:</p> <p>$-2 + -9 =$ $2 - 13 =$ $3 * -7 =$ $-64 \div 4 =$</p>	<p>19. Evaluate: $6a^2$ if $a = 4$</p> <p>Evaluate: $\frac{7.5m}{5}$ if $m = 3$</p>	<p>20. Given a circle with a radius of 7 cm:</p> <p>Find the diameter. Find the circumference. Find the area.</p>	<p>21. Solve the inequality:</p> <p>$5y + 1 \leq 36$</p> <p>$4x - 6 > 10$</p>								
<p>22. Solve the equation:</p> <p>$6a - 10 = 26$</p> <p>$8 + 8b = 64$</p>	<p>23. Perform the operations:</p> <p>$-10 + 9 =$ $2 - -3 =$ $-4 * 2.5 =$ $60 \div -8 =$</p>	<p>24. The lifespan of a zebra is 15 years. The lifespan of a black bear is 3 years longer. Write an equation that you could use to find the lifespan of a black bear.</p>	<p>25. Look up some statistics from your favorite sport or athlete. What is the mean, median, mode, range,</p>	<p>26. Write an inequality for: Five dollars less than two times Chris' pay is at most \$124.</p>	<p>27. Determine the surface area and volume for the rectangular prism.</p> 	<p>28. Play a math thinking game like: Yahtzee, Mastermind, Monopoly, Life, Tenzi, Battleship, Dominoes, Guess My Number</p>								

Summer Math Calendar for Students Entering 8th Grade - August

<p>1. Evaluate: $(2 + 10)^2 \div 4$</p> <p>$(6 + 5)(8 - 6)$</p>	<p>2. Perform the operations: $6 + -9 =$ $-2 - 3 =$ $-3 * 4 =$ $16 \div -4 =$</p>	<p>3. An online retailer charges \$6.99 plus \$0.55 per pound to shop electronics purchases. How many pounds is a DVD player for which the shipping charge is \$11.94?</p>	<p>4. The diameter of the circular base is 4 inches. The height is 10 inches. Calculate the volume.</p> 	<p>5. Solve the equations:</p> $\frac{n}{6} - 7 = 35$ $\frac{m}{5} + 9 = 41$	<p>6. Lexie is making a model of the Empire State Building. The scale of the model is 1 in = 9 ft. The needle at the top is 31.5 ft tall. How big should the needle on the model be?</p>	<p>7. Fill in the table below using $y = -2x - 3$</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 2px 10px;">x</th> <th style="padding: 2px 10px;">y</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px 10px;">-3</td> <td style="padding: 2px 10px;"></td> </tr> <tr> <td style="padding: 2px 10px;">2</td> <td style="padding: 2px 10px;"></td> </tr> <tr> <td style="padding: 2px 10px;">5</td> <td style="padding: 2px 10px;"></td> </tr> </tbody> </table>	x	y	-3		2		5	
x	y													
-3														
2														
5														
<p>8. Use the distributive property to simplify:</p> <p>$-2(7 - 5x)$</p> <p>$\frac{3}{2}(2a + b - 6c)$</p>	<p>9. Write 15^4 as a product of the same factor.</p> <p>Evaluate 7^3.</p> <p>What is the square root of 81?</p>	<p>10. Solve the equations:</p> $-4x - 5 = 3$ $2(2x + 4) = 20$	<p>11. If a quadrilateral has three angles measuring 60°, 45°, and 100°, find the measure of the fourth angle.</p>	<p>Combine like terms to simplify:</p> $-10 + 12a - 7a^2 + 7 - 3a$ $3(4x - 5y) + 9x$	<p>13. Perform the operations:</p> $-\frac{1}{2} + 3 =$ $-\frac{1}{2} - 3 =$ $-0.25 * 4 =$ $-6 \div -12 =$	<p>14. Evaluate:</p> $72 \div 3 - 5(2.8) + 9$ $3 * 14(10 - 8) - 60$								
<p>15. Find the value of k if the volume is 1800 cu yd?</p> 	<p>16. If you're working at an amusement park and you want to survey people for their favorite ride, describe a way you could get a random sample and a way to get a biased sample.</p>	<p>17. Write an expression to find the perimeter of the hexagon below.</p> 	<p>18. Perform the operations:</p> $-2 + -9 =$ $2 - 13 =$ $3 * -7 =$ $-64 \div 4 =$	<p>19. Find a shoebox (or any other rectangular prism). Measure all the sides in inches. Find the total surface area of all 6 sides.</p>	<p>20. The diameter of the circular base is 8 inches. The height is 7 inches. Calculate the volume.</p> 	<p>21. Solve the inequality:</p> $5x - 18 < 7$ $\frac{x}{3} + 6 \geq -10$								
<p>22. Solve the equation:</p> $\frac{b}{9} - 5 = 0$ $4(3y - 1) = 44$	<p>23. Perform the operations:</p> $0.75 + -0.5 =$ $2 - 3.25 =$ $6 * -\frac{1}{3} =$ $6 \div -\frac{1}{3} =$	<p>24. At the Summer House you are ordering ice cream. There are 3 soft serve flavors, 4 hot toppings, and 5 candy toppings. How many options do I have for sundae combinations if I choose one of each?</p>	<p>25. Write an equation to find the value of the missing angle. What is the value of x?</p> 	<p>26. Use the Pythagorean Theorem to find the missing side length.</p> 	<p>27. Write an equation to show the sum of three consecutive numbers is 21. What are the three numbers?</p>	<p>28. Play a math thinking game like: Yahtzee, Mastermind, Monopoly, Life, Tenzi, Battleship, Dominoes, Guess My Number</p>								