

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<h1>ALGEBRA 1</h1> <h1>OCTOBER 2015</h1>			<ul style="list-style-type: none"> <li>Remember that if the answer you get is different from the date... <b>you need to try the problem again!</b></li> <li><b>Do not</b> leave any question blank. If you don't know how to solve it... <b>ask for help!</b></li> </ul>	1 Simplify $-8 + 4(3 \cdot 2)^2 \div 6 - 5 \cdot 3.$	2 Write the explicit formula for a geometric sequence with $r = 2.$	3 Write the explicit formula for an arithmetic sequence with $d = 3.$
4 Simplify $\frac{3}{4} + \frac{26}{8}$	5 Find the common difference or common ratio for the sequence 10, 15, 20, 25, ...	6 Simplify $\frac{12}{4} \cdot \frac{6}{3}$	7 Find the common difference or common ratio for the sequence 7, 49, 343, 2401, ...	8 Simplify $\frac{3}{7} \div \frac{3}{56}$	9 Make a mapping diagram of a function with 9 elements in the domain.	10 Make a mapping diagram of a relation that is not a function with 10 elements in the range.
11 Simplify $-26 + 37.$	12 Simplify $-3(-4).$	13 Simplify $-\frac{17}{5} - \frac{48}{5}.$	14 Simplify $\frac{18}{4} + \frac{19}{2}.$	15 Draw the graph of a function where all elements of the range are less than 15.	16 Draw the graph of a relation that is not a function where all elements of the domain are less than 16.	17 Find $f(3)$ if $f(x) = 5(x - 2) + 12.$
18 Write a multiplication word problem whose answer is 18.	19 Write a fraction word problem whose answer is 19.	20 Find $f(2)$ if $f(x) = x^3 + 2x^2 + 27x - 50$	21 Write the first five terms of the geometric sequence with a common ratio of 2.1 and first term of 21.	22 Write the first five terms of the arithmetic sequence with a common difference 22 and a first term of 2.2.	23 Simplify $34 - 13 + 18 \cdot 4 \div 6 - 10(9 - 2^3)$	24 Simplify $\frac{8}{11} \div \frac{1}{33}.$
25 Consider the sequence 1, 5, 9, 13, ... What is $a_7$ ?	26 Write a function where $f(3) = 26.$	27 Graph $f(x) = 3x + 27$ and identify the $y$ -intercept.	28 Solve for $x.$ $4x + 87 = 11x - 109$	29 Find $a_4$ if $a_n = 6(n - 1) + 11.$	30 Find $a_4$ if $a_n = 1.11(3)^{n-1}.$	31 Solve for $x.$ $2(3x - 5) = 11(x - 15)$