

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
1 Find the y-intercept of the line perpendicular to the line $y = \frac{1}{2}x + 2$ through the point $(-3, 7)$.	2 Draw a function that is increasing only in the interval $[-2, 2]$.	3 Find the value of y in the system below.	4 Find the value of z in the system below. $\begin{cases} 5x - 5y - 6z = -14 \\ 3x - 6y + z = 1 \\ x + 4y + z = 21 \end{cases}$	5 Find the value of x in the system below.	6 Simplify $\frac{3\sqrt{8}}{\sqrt{3}} + \sqrt{96}$	7 Find the y-intercept of the line parallel to the line $y = -\frac{1}{2}x + 2$ through the point $(8, 3)$.	
8 Charlie paid \$3.20 in postage. If he used five 32-cent stamps and paid the rest with 20-cent stamps, how many 20-cent stamps did he use?	9 Simplify $\frac{(x^{-3})^4}{x^{-3}}$	10 Simplify $\sqrt{40} + \sqrt{640}$	11 Graph the interval $(-11, 11]$.	12 Simplify $\frac{(x^3y^4)^2x^6}{y^{-4}}$	13 Simplify $\sqrt{208} + 9\sqrt{13}$	14 Solve for x . $\frac{-2}{3x + 6} = \frac{2}{-4x + 8}$	
15 96.3 is what percent of 642?	16 Solve for x . $\frac{x + 4}{6} = \frac{2x - 2}{9}$	17 Ten vans & eight busses will hold 458 people. Five vans & seven busses will hold 337 people. How many people fit in one van?	18 Let $f(x) = 3x^2 + 3x$. Find $f(2)$.	19 Let $f(x) = 4x^2 + 5x - 2$. Find $f(-3)$.	20 Simplify $x^{10}y^0(x^2)^5$	21 Make a mapping diagram of a function where 21 is an element of the domain.	
22 Draw the graph of a function where 22 is the largest element of the range.	23 Simplify $\frac{x^{28}}{y^2x^2} \left(\frac{x^5y^3}{y^{-4}x^4} \right)^{-3}$	24 Reversing the digits in a certain two-digit number, increases its value by 18. What is the number if the sum of its digits is 6?	25 The sum of three consecutive numbers is 78. What is the smallest of the three numbers?	26 Simplify $13\sqrt{104}$	27 L is a line that goes through the points $(2, 0)$ and $(1.5, -13.5)$. Find the slope of a line parallel to L .	28 Find the y-intercept of the line through the points $(3, 26)$ and $(18, 16)$.	
29 Solve the system below. $\begin{cases} 32x - 31y = 29 \\ 27x - 29y = -58 \end{cases}$	30 Rita counts 524 strides as she walks once around a 400 meter track. A meter is about 39.37 inches. How long is her stride in inches?	ALGEBRA 2				<ul style="list-style-type: none"> Remember that if the answer you get is different from the date... you need to try the problem again! Do not leave any question blank. If you don't know how to solve it... ask for help! Show all your work! The process is more important than the answer. 	
		NOVEMBER 2015					