<u>4035</u> 1.	Evaluate: 2018 ² – 2017 ²
<u>2</u> 2.	Find remainder of 2018 divided by 18
<u>22198</u> 3.	Evaluate: 2018*11
<u>17</u> 4.	Find larger solution for x: $x^2 - 20x + 51 = 0$
<u>1717</u> 5.	Find the sum of the arithmetic series: 1,4,7,,100
<u>-1-i</u> 6.	Evaluate: i ³ + i ⁶ + i ⁹ + i ¹² + i ¹⁵ + i ¹⁸
<u>15</u> 7.	What is the acute angle (in degrees) made between the hour and minute hands at time 6:30 on a standard 12 hour clock?
<u>-10</u> 8.	$f(x) = 3x-2$. $g(x) = x^2 - 3x$. Find $f(g(2)) + g(f(1))$
<u>9</u> 9.	Find the units digit of $2^{2018} + 0^{2018} + 1^{2018} + 8^{2018}$
<u>8 + 8√2</u> 10.	Find the area of a regular octagon with side length 2
<u>151</u> 11.	Assume that 5 used up widgets can be combined to make 1 new working widget, and each new widget can be used once. How many widget uses can you have if you start with 121 new widgets?
<u>210</u> 12.	Find the area of a right triangle with base 20 and hypotenuse 29.
<u>210</u> 13.	Given 10 evenly spaced points on a circle labeled A to J, how many quadrilaterals can be drawn by connecting 4 of those points?
<u>94</u> 14.	Find the surface area of a rectangular prism with edge lengths 3,4,5
<u>9</u> 15.	Evaluate: 4 ^{log₈(27)}
<u>5</u> 16.	Evaluate: $\sqrt{20 + \sqrt{20 + \sqrt{20 + \cdots}}}$
<u>2</u> 17.	18 points are evenly spaced on a circle. How many distinct 18-pointed stars are there using these points as vertices?
<u>453600</u> 18.	How many distinct permutations exist for the letters MENTALMATH?
<u>28</u> 19.	Find the sum of all distinct, positive integral factors of 12
²²⁴ / ₁₁₁ 20.	Write $2.\overline{018}$ as a reduced and simplified fraction
<u>-6084</u> 21.	Evaluate: 2018 - 8102
<u>8126</u> 22.	Evaluate: $\sum_{n=2}^{5} (n^2 + 2018)$
$\frac{1}{1296}$ 23.	What is the probability of a yahtzee (rolling 5 dice and getting all the same

		number)? Write as a reduced and simplified fraction.
<u>13</u>	24.	How many distinct ways can you make \$0.25 using pennies, nickels, dimes, and quarters?
<u>45</u>	25.	The ratio of sphere A's to sphere B's volume is 8:27. The surface area of sphere A is 20. Find the surface area of sphere B.
<u>1009²⁰¹⁸</u>	26.	Which is bigger: 2018! or 1009 ²⁰¹⁸
3	27.	Billy, Bob, and Joe can each independently paint a barn in 3, 4, and 12 hours, respectively. How many hours would it take them to paint 2 barns together?
30	28.	A rectangular prism has faces with areas 6,10,15. Find its volume.
<u>610</u>	_ 29.	What is the 15 th fibonacci number? (assume series starts 1,1,2,3,5,)
<u>6</u>	30.	Find the number of digits in the expansion: $3^4 * 4^3 * 5^2 * 6^1$
$-\frac{4}{3}$	31.	Solve for x: $27^{x} = 1/81$
<u>1093</u>	32.	Evaluate: 1 + 3 + 9 + 27 + 81 + 243 + 729
13	33.	How many integers satisfy 1-3x < 20
2000122	34.	Convert to Base 3: 20189
173 105	35.	Evaluate: $\frac{1}{3} + \frac{3}{5} + \frac{5}{7}$
<u>9:38</u>	36.	A standard twelve hour clock shows 12:00. What time will it show 2018 minutes from now?
7	37.	Find the 4th largest integral factor of 42
<u>(52,68)</u>	38.	Find the point $\frac{3}{4}$ of the way from (16,17) to (64,85)
8	39.	$x+y = 5$. $x^3+y^3 = 5$. Find xy
0.38	40.	If the independent probabilities of each of Larry, Moe, and Curly slipping are 0.4, 0.5, and 0.6, what is the probability (as a decimal) that exactly one of them slips?