	Team:	Score:
1.	A witch brews a potion using ingredients <i>A</i> , <i>B</i> , and <i>C</i> in the ratio of volume is 75 liters, how much of ingredient <i>A</i> was used?	f 3:5:7. If the total potion
2.	A wizard's spellbook has a page shaped like a trapezoid with base a height of 8 cm. What is the area of the page?	s of 10 cm and 14 cm, and
3.	Gandalf has 12 marbles. He doubles that amount and adds 8. If he times, how many marbles would he have?	did that process 3 more

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4. Jack and Annie find 10 books lined up in their treehouse. Jack blindfolds himself and randomly turns over five different books. What is the probability that all five turned books are in a line?

5. King Arthur and Merlin's ages have a difference divisible by 5. When Arthur was 1, their ages had a difference divisible by 17. Find the smallest possible difference of their ages.

6. Let A=1, B=2, C=3, ..., Z=26. Then, a string can be converted into a number by adding all of the letters up. For example, the string CAT has C=3, A=1, and T=20, so 3+1+20=24. What is CINDERS+FELLA-CINDERELLA?

	Team:	Score:
7.	The amount of sugar plums that 2025 fairies in a village h fairy. The average amount of sugar plums they have is 101	
8.	When Snow White's evil stepmother looked into the mirror It read: the sum of 2024 squared and 2015 squared is? Is stepmother to use her mirror again.	-
9.	A human turns into a werewolf at 8:50PM. What is the me and minute hand make at this time?	asure of the angle the hour hand

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10. Wonderland uses base 11 and Alice wants to convert 8627 base 10 apples so others can understand. What is 8627 in base 11?

11. Gargamel wants to count Smurfs and mushrooms to create a gold generating potion. He has his cat Azrael count the Smurfs and mushrooms, and the animal passes the information that there were a total of 3928 ingredients available and 3 times the amount of smurfs plus 8 was the amount of mushrooms. How many mushrooms did the cat count?

12. When Humpty Dumpty fell off the wall, he broke into m+n pieces (where m and n are both positive integers). m+n satisfy the equation $\frac{m}{7}=\frac{12}{n}$. What is the least possible value of m+n?

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13. Eragon and his dragon have a flight path x = 2t + 4, $y = t^2$, where x is their horizontal distance, y their vertical distance, and t their time. At the time t = 4, find the total distance they have traveled.

14. Frodo from the Lord of the Rings has two dice. One dice is a fair 12-sided die, and the other a fair 6-sided die. If he rolls them, find the probability their sum is

15. Mickey's sock drawer contains only 4 red socks, 2 green socks, 6 blue socks, and 20 white socks. Due to the distribution of the socks, they have different likelihoods to be picked. Mickey has a 25% chance of pulling a red sock, a 30% chance of pulling a green sock, and a 20% chance of pulling a blue sock. What is the chance that out of 5 pairs of socks Mickey chooses to lay out on his dresser, each contains one blue sock and one red sock?

	Team:		Score:
16.	activate it. Immediately after	tes rejuvenation water at a rate of activation, $\frac{1}{2}$ of the water disappermic rules. If the fountain starts we 6 hours?	ears and will continue doing
17.	Wonka's factory. Her growth and w is the weight she gaine to deflate and lose weight be	avier and larger after eating bubb is represented by the equation we ed in pounds. For the bubblegum t fore gaining the bubble-like figure normal weight and the time she ga	$f(t) = t^2 - 5t$ where t is time to work, her body first needs e. Find the sum of the time it
18.	the treasure. Gimli chooses 3 wants Legolas to suffer a littl	sible locations for a hidden ring. (locations to dig and covers the lo e. Legolas arrives and chooses 4 lo of them finds the treasure, assumi	cations again because he ocations to dig. What is the

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19. Golmek the Unclean flies in a spiral, starting at a height of 5 meters and increasing its height by 2ⁿ meters on the n-th loop of the spiral. After completing 10 loops, how far has the dragon risen in total?

20. Sofia the First wants to increase a Mathlete's knowledge. She questions them, "What is the smallest number greater than 7 that has a remainder of 7 when divided by 3, 4, 8, and 9?"

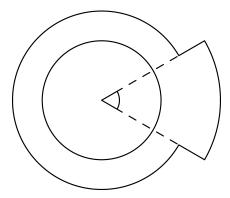
21. The three little pigs finally caught the big bad wolf and suspended him dead center in a cube cage with side length 1. The triangle formed by one pair of diagonal vertices of one face of the cube and the wolf has an area that can be expressed in the form $\frac{\sqrt{m}}{n}$. What is m + n?

	Team:		Score:
22.	it. The vertices of the first cube i	in Spiderman: No Way Home contai inside of it touch the center of all 6 fa the center of the 6 faces of the first c nnermost cube as a fraction?	aces. The second cube
23.	block is a cube with a side length	ve wall around his city with 1152 ma h of 1 meter. The wall is designed as idth, and the height is 4 meters. Wha	a rectangular prism,
24.	runes inscribed on its armor. Ea first rune pulses once per minut n-th rune pulsing n times per m	asure that Sanguinius seeks. The daen sch rune emits a specific number of p te, the second pulses twice per minut inute. Sanguinius observes the armo non's armor emit in 12 minutes?	ulses per minute: the te, and so on, with the

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25. Albus groups 123424689 wheels of cheese into groups of 1234. After he groups them using a spell, a few wheels of cheese are left over. How many wheels does he have left?

26. The Ring has an inner radius 2 and an outer radius 3. As shown, a sector of measure 60 degrees is extruded from the outer radius by 1. What is the area of The Ring?



27. Alice loves the word "WONDER", as all the letters are unique, and it starts with W and ends with R. How many six-letter combinations have these properties?