



## Rules and Regulations L1 Competition #2



Releasing the Genius®

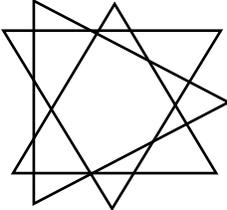
(Please read these rules and regulations carefully)

1. Please fill in your FULL name, grade, campus and student ID clearly on the answer sheet, and on the top of this page.
2. Do not open the question booklet until you are told to do so. You may only use a pencil when answering the questions.
3. No calculators or unauthorised electronic devices (including mobile phones) are allowed during the contest.
4. Strict silence must be observed at all times in the examination hall and please be reminded that you MAY NOT leave your seat without permission.
5. If you have any request or enquiry, please raise your hand and wait for an invigilator.
6. Only one candidate is allowed to leave the hall at a time. You are required to return to the hall within 10 minutes or else you will automatically be disqualified from the contest.
7. Each question in the contest has been verified by experienced trainers, thus no further explanation will be given.
8. The time allowed for the paper is 45 minutes. You must stop writing when you are told to do so.
9. You MUST fill in your answer in the answer sheet provided as you walked into the contest room. You will not be awarded marks for any answer written in the question booklet.

### Scoring System

1. The correct answers to problems 1 to 10 will be awarded 1 point each. The correct answers to problems 11 to 15 will be awarded 2 points each. The total number of marks is 20 points. You will not be penalized for each incorrect answer.
2. The organizer reserves the right to call for a re-sit in the event of malpractice and to differentiate between those outstanding students.
3. Contestants who are disqualified from the contest will not be awarded any certificates and will be forfeited any right to re-sit this year.

Questions 1-10 consist of 1 point each

1. If Mr. Smith started building his house 6 days after 5 days before 9 days after 4 days before 4 days after 2 days before the day before January 14<sup>th</sup> 2002, on what day did he start building his house?  
a) Jan 14<sup>th</sup>   b) Jan 20<sup>th</sup>   c) Jan 7<sup>th</sup>   d) Jan 21<sup>st</sup>
  2. Mario's last day of Spirit of Math class before March Break was Thursday March 6<sup>th</sup>. His first day back after the break was March 28<sup>th</sup>. If he didn't do any of his homework over the break, for how many weeks did he not do any Spirit of Math?  
a) 2   b) 4   c) 3   d) 2.5
  3. Fran's Flower Emporium was closing for the season. All of the flowers had either 3 petals or 5 petals left on them. If Fran counted 20 flowers and 70 petals, how many flowers had only 3 petals left?  
a) 5   b) 8   c) 15   d) 20
  4. What comes next in the sequence: 2, 5, 10, 17, 26, ...  
a) 30   b) 35   c) 37   d) 38
  5. How many triangles of all sizes are there?  
a) 20   b) 18   c) 28   d) 24
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6. A log 45 meters long is cut into thirds, and each piece is then cut into thirds again. How long is each piece?  
a) 7.5   b) 5   c) 10   d) 15
  7. There is a fence in the shape of an equilateral triangle with each side 15 meters long. Bob wants to put lights every 5 meters, how many lights does he need?  
a) 10   b) 6   c) 9   d) 15
  8. Five years ago Gita was three times the age of his cousin Dilip. If Dilip is 8 years younger than Gita now, how old is Gita now?  
a) 13 years   b) 16 years   c) 17 years   d) 36 years
  9. If I double a number and divide the result by 8, the quotient is 32. Find the number.  
a) 128   b) 4   c) 80   d) 16
  10. On Fruity Tree Lane,  $\frac{1}{4}$  of the houses have 2 cherry trees on their front lawn. If there are 12 houses on Fruity Tree Lane, how many cherry trees are there?  
a) 8   b) 4   c) 6   d) 3

Questions 11-15 consist of 2 point each

11. If 3 students wrote a test and scored 75%, what score will the fourth person need to bring the class average up to 80%?  
a) 87.5% b) 90% c) 92.5% d) 95%
12. At Popular Paul's party, he set out chairs (four legs) and stools (three legs) for his friends to sit on. If he counted 13 seats and 44 legs altogether, how many three-legged stools were there?  
a) 6 b) 8 c) 5 d) 3
13. Nathan is driving his car down the road from his house to his favourite restaurant. Nathan's house to the restaurant is 60km, and the drive has three different speed limits: the first 20km has a speed limit of 20km/hr, the second is 20km with a speed limit of 40km/hr, and the third is 20km with a speed limit of 20km/hr. If Nathan followed all speed limits, what is his average speed?  
a) 26km/hr b) 24km/hr c) 28km/hr d) 30km/hr
14. What is the probability of throwing a sum of 11 with one throw of two fair dice?  
a)  $1/18$  b)  $1/36$  c)  $1/12$  d)  $1/4$
15. How many different ways can you make \$0.25 using pennies, nickels, dimes and/or quarters? (You may use all, none, or some of each type of coin.)  
a) 1 b) 5 c) 10 d) 13