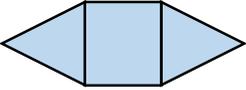
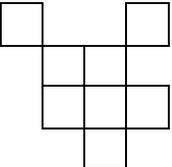
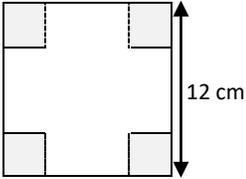
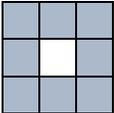


		Answers	Score
1.	216 is divisible by what number to have both quotient and remainder equal to 4?	1.	
2.	What is the average of one 1, two 2s, three 3s, and four 4s?	2.	
3.	Medha burns 4 candles each day, and she needs enough candles to last a full week. If candles are sold in packs of 5, what is the minimum number of packs of candle will Medha need?	3.	
4.	 A cricket chirps 6 times every 8 seconds. At that rate, how many times does the cricket chirp in 2 minutes?	4.	
5.	The figure below consists of two identical equilateral triangles and a square. If the perimeter of each triangle is 24, what is the perimeter of the figure? 	5.	
6.	Think of the largest whole number less than 10,000 whose digits are all different. What is the ones' digit of this number?	6.	
7.	The sum of four consecutive whole numbers is 110. What is the sum of the least and the greatest of the four numbers?	7.	
8.	 The figure is made up of identical squares. The area of the figure is 200 cm^2 . What is the perimeter of the figure?	8.	
9.	What is the missing number in this sequence: 2, 4, 8, 32, _____, 8192	9.	

10.	If 48 students occupy $\frac{3}{8}$ of the seats in the auditorium, how many students would occupy $\frac{3}{4}$ of the seats in the auditorium?	10.	
11.	Dhruv has a collection of movies on DVDs that are either action or horror movie. If he has 63 movies, and he has 2 horror movies for every 7 action movies, how many horror movies does Dhruv have?	11.	
12.	Of 132 dancers, half of them wear pink outfit. Half of the rest wear purple outfit. What is the ratio of the number of dancer wearing purple to the number of dancer wearing pink outfit?	12.	
13.	Peter cut out 4 small squares from a piece of a cardboard square. Each small square had an area of 6 cm^2 . What was the area of the remaining cardboard? 	13.	
14.	Amol read 52 pages of a book on Sunday. On Monday, he read $\frac{1}{6}$ of the remaining pages.  he still had $\frac{1}{2}$ of the book left to be read, how many pages were there in the book?	14.	
15.	When twice of the perimeter of a square is tripled, the result is 72. What is the area of the square?	15.	
16.	Kirill took 5 hours to travel from Town N to Town M. His average speed for the whole journey was 70 km/h. For the first $\frac{3}{7}$ of the journey, he travelled at a speed of 60 km/h. Find his speed for the remaining journey. 	16.	

17.	If a whole number between 100 and 999 has three different non-zero digits, what is the least possible value of the sum of its digits?	17.			
18.	DVDs are on sale. Fredo plans to buy 2 more \$6 DVDs than \$5 DVDs. If he is spending exactly \$100, how many DVDs did he buy?	18.			
19.	Angela has 210 more books than Jennifer. After she gave 30 books to Jennifer, she had 3 times as many books as Jennifer. How many books did Angela had before giving the 30 books to Jennifer?	19.			
20.	If the sum of two whole numbers is 12, and half their product is 16, what is the difference of the two numbers?	20.			
21.	How many triangles of all sizes are in this figure? 	21.			
22.	A square that has a perimeter of 36 inches is divided into 9 smaller squares as shown. What is the perimeter of the shaded region? 	22.			
23.	Jeff set off on a 270 kilometers journey at 10 a.m. He drove at a speed of 80 km per hour for the first 1.5 hours. He then drove at a speed of 60 km per hour for the rest of his journey. At what time did he complete the journey?	23.			
24.	Karissa has only quarters, dimes, nickels, and pennies. She has a different number of each type of coin. If Karissa's 10 coins have a total value of 83 cents, what is the most type of coins she has?	24.			
25.	If I write all 26 letters of the alphabet in alphabetical order 62 times in a row, what is the 805 th letter?	25.			
TOTAL SCORE					

MATH CHALLENGE TOURNAMENT

MASTERS

February 27, 2016
Individual Challenge

Grade 4

Sponsored By Ellipsis Academy



FINAL SCORE:

LAST NAME: _____

FIRST NAME: _____

School: _____ **Grade:** _____

PROBLEM SOLVING (30 minutes)

- You may use scratch paper to do any calculations to reach final answers.
- Write your answers in this test booklet.
- Units are not necessary. If you choose to label your answer, please make sure you write the correct units. A correct answer with incorrect units will be marked as an incorrect answer.

There are 25 questions.

Correct answer: 5 points

Blank answer: 2 points

Incorrect answer: 0 points