		Answers	Score
1.	What is the value of 5 + 8 × 3 + 1 + $\sqrt{9}$		
2.	What is the area of a circle with diameter 10? Express our answer in term of π .		
3.	Find the missing factor: 20 x 30 x 40 = 2 x 4 x 6 x		
4.	What fraction of an hour passed today between 11:09 am and 11:41 am?		
5.	Adrian is traveling on I-405 at a rate of 55 miles per hour. At this rate, how many hours will it take for Adrian to travel 330 miles?		
6.	What is the next number in the following series? 3, 9, 21, 45,		
7.	What is the probability to draw a 2 of hearts or an ace from a standard deck of cards?		
8.	How many perfect squares are between 20 and 145?		
9.	Evaluate: $\frac{2}{3} \times \frac{4}{5} \times \frac{6}{7} \times \frac{7}{6} \times \frac{5}{4} \times \frac{2}{3}$		
10.	Find the smallest of five consecutive numbers whose sum is 100.		
11.	If 3 of every 150 elementary students play chess, then% of all elementary students play chess.		
12.	What is the largest odd factor of 81?		
13.	Evaluate: $\left(\frac{3}{5}\right)^3$		

14.	What is the average of all the odd numbers between 2 and 10?	
15.	For each dollar Brandt earns, he puts a quarter and a penny in the bank. If he has earned \$83, how much money, in dollars, has he put in the bank?	
16.	Twice my favorite number is one-hundred-two less than five times my favorite number. What is my favorite number?	
17.	What is the mean of 2/3 and 4/9?	
18.	Evaluate: (11 + 22 + 33) ÷ (1 + 2 + 3)	
19.	Evaluate: $3\frac{3}{11} \times 7\frac{1}{3}$	
20.	40 yards of fabric was used to make 6 Halloween capes. How many yards are used to make 1 cape?	
21.	5.5 gallons of orange juice was poured equally into 80 cups. Find the volume in ounces of orange juice in each cup. 1 gallon = 128 oz	
22.	Find the probability of rolling a sum of 1 or a sum of 13 with two standard dice (numbered $1-6$).	
23.	Find the least common multiple of 6, 7, and 8.	
24.	What is the sum of 60% of 75 and 75% of 60?	

Division N

TOTAL SCORE			
34.	Evaluate: $(3x \cdot 2x)^2$		
33.	Manasvi's guestroom is 15 ft long and 12 ft wide. How long is the diagonal of the guestroom? Express your answer in decimal rounded to the nearest hundredth.		
32.	What is the midway between 2 $\frac{1}{2}$ and $-1\frac{1}{2}$.		
31.	Evaluate: $-3 - 12(-5 + 3)$		
30.	What is the product of 0.5% of 500 and 5% of 50?		
29.	Ben drives from Alpville to Bizzburg at 70 miles per hour, then drives back along the same route at 20 miles per hour. As a mixed number, what was his average speed, in miles per hour?		
28.	It takes 3 teacher 3 hours to write 36 test problems. Assuming the 3 teachers work at the same average rate, what is the number of minutes it would take for 1 teacher to write 6 test problems?		
27.	Adding 38 to a number increases it by 5% of its original value. What is the original number?		
26.	The ratio of red cars to black cars to white cars on a car lot was 8 : 6 : 12. If there were 182 cars altogether, how many black cars were there?		
25.	Bharat saved \$280. Koa saved \$120 more than Bharat. What percentage of Koa's money must be given to Bharat so each of them has the same amount of money?		

MATH CHALLENGE TOURNAMENT 2015 GRADE 6

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FINAL SCORE:

Name:			

Team#:_____

- Write your answers in this test booklet.
- Unit is not necessary. If you choose to label your answer, please make sure you write the correct unit. A correct answer with incorrect unit will be marked as an incorrect answer.

Correct answer: 1 point Blank answer: 0 point Incorrect answer: 0 point.