

Division Q – Grade 4

		Answers	Score
1.	How many hours are in 5 and a half days?	1. 132 [hours]	
2.	What is the perimeter of the figure below? All angles are right angles.	2. 60 [units]	
3.	Dan writes the word CHALLENGE, one letter each day. He starts on Sunday. What will be the day when he finishes?	3. Monday	
4.	Sam rolls two dice and gets a 5 on one of them. How many different possible sums can Sam get?	4. 6	
5.	Let A be the sum of the first 11 positive numbers. What is A divided by 4?	5. 16.5	
6.	Anna can walk 3 miles per hour while Matt can walk 4 miles per hour. How many yards farther can Matt walk in 15 minutes than Anna?	6. 440 yards	
7.	Two squares share a corner X. The larger square has an area of 49 cm ² . The smaller square has an area of 25 cm ² . What is the perimeter of the shaded region?	8. 28 (5+5+2+2+7+7)	
8.	A can of peaches cost 129 cents. How much will it cost, in dollars, to buy 12 cans?	9. \$15.48	
9.	Andy’s flash drive can hold 8192 megabytes. If he fills up three-quarters of his flash drive with the past tests from “Math Challenge Tournament” questions, how many gigabytes (1 Gigabyte = 1024 Megabytes) would still be available?	9. 2	
10.	How many zeros would it take to write the product of 125 and 600?	10. 3 (75,000)	

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11.	How many different 3 letter words can you create from the word CHALLENGE, if middle letter is “A”?	11. 49	
12.	The shaded triangle has area 7 square units. What is the number of square units in the area of the circumscribed rectangle?	12. 14 [sq. units]	
13.	Find the sum of the distinct or different prime factors of 210.	13. 17 (2,3,5,7)	
14.	Right now it is 36.2° outside. It was 41.4° two hours ago. If it continues cooling at the same rate, what temperature will it be in 45 minutes? Give your answer as a decimal number of degrees, to the nearest tenth of a degree.	14. 34.3°	
15.	Find the value of X.	15. 53°	
16.	The date 02-04-06 (February 4 th , 2006) consists of three consecutive even numbers in increasing order. This is the first date with this feature in the 21st century. Including the date given as an example, how many dates expressed in the form mm-dd-yy have this feature in the 21st century?	16. 6 (02-04-06, 04-06-08, 06-08-10, 08-10-12, 10-12-14, 12-14-16)	
17.	How many different triangles can be formed, with whole number side lengths, have a perimeter of 30 units, and have one side of 12 units long?	17. 6 [triangles]	
18.	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?	18. \$21.58	

19.	A slow clock is set correctly at 8:00 AM, and loses 3 minutes every hour. When the slow clock next reads 7:00 PM, what is the correct time?	19.	7:33PM		
20.	The ratio of boys to girls on the math team is 5 to 2. If they can get six more girls to join, the ratio of boys to girls would be ten to six. How many kids are currently on the math team?	20.	42 [kids]		
21.	How many more arrangements of all the letters in the word 'SCORE' than of all the letters in the word 'MATH'?	21.	96		
22.	Maya is covering the front of her notebook with stickers. If her notebook is 12 inches by 8 inches and she has it 2/3 covered, what is the area, in inches squared, of her notebook that is not covered in stickers?	22.	32 [in ²]		
23.	Water increases in volume by 5% when frozen. I pour 400 cubic centimeters (cc) of water into a container that holds 425 cc. I then freeze this water. What is the empty volume remaining in the container, in cubic centimeters?	23.	5 [cm ³] or 5 [cc]		
24.	 A monthly calendar is laid out as usual with 7 columns labeled Sunday through Saturday, and with as many rows as needed for that month. What is the largest possible sum when you add all the numbers in a single column?	24.	85		
25.	Manny decided to mark everything down in his store by 10% during the winter sale event. However, it didn't stimulate sales so he marked everything down another 20%. What is the overall % mark down?	25.	28%		
TOTAL SCORE					

MATH CHALLENGE TOURNAMENT 2015

Individual Challenge – Grade 4

Sponsored By Ellipsis Academy

FINAL SCORE:

KEY

Name: _____

Team#: _____

Individual Challenge (30 minutes)

- You may use scratch papers to do any calculation to reach final answers.
- Write your answers in this test booklet.
- All fraction answers must be reduced.
- 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.

There are 25 questions.

Correct answer: 5 points

Blank answer: 2 points

Incorrect answer: 0 point.