Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Number Correct :

School: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Division (circle one)

Elementary Middle School Sponsor

**CHILES MINI MU**

**SPEED MATH**

Direction: This is the speed math test. You will have 10 minutes to complete 15 questions. You may show any work necessary to get your answer. **Please** write legibly, if your answer cannot be read it will be marked incorrect. You will receive time warnings at 5 minutes remaining and one minute remaining.

Unless otherwise specified, numerical answers should be in one of the following forms: improper fraction, mixed number, simplest radical form, exact form, in terms of pi (no approximations). All fractions must be fully reduced; if the answer is 1/2 and you answer 2/4 you will be marked off. Decimal representations of fractions are okay but it must be exact and any repeating digits must be clearly marked with an over-bar. Units are assumed unless specifically asked for.

The content of this test is Geometry and below, with a heavy emphasis on number tricks and shortcuts.

Good luck and have fun!

1. \_\_\_\_\_\_ Evaluate  , leave as an improper fraction if not reducible
2. \_\_\_\_\_\_ There is a triangle with side lengths  what is the area of this triangle?
3. \_\_\_\_\_\_ Bryan is giving out pieces of candy, he starts off with  pieces of candy and he gives half of it to the first student, half of what he has left to the second student. After giving his candy to the two students he is left with 43 pieces of candy, what is the value of ?
4. \_\_\_\_\_\_ Evaluate 
5. \_\_\_\_\_\_ Brighten has a quarter, what is the probability of getting 5 heads in a row?
6. \_\_\_\_\_\_ What is the 21st prime number
7. \_\_\_\_\_\_ What is the volume of a sphere that has a surface area of square units
8. \_\_\_\_\_\_ What is the value of  where?
9. \_\_\_\_\_\_ What is the integer value of such that  is a Pythagorean Triple?
10. \_\_\_\_\_\_ Evaluate
11. \_\_\_\_\_\_ What is the 7th hexagonal number
12. \_\_\_\_\_\_ What is the sum of the interior angles of a 29-gon
13. \_\_\_\_\_\_ What is the hundreds digit of 
14. \_\_\_\_\_\_ Bryan is looking for some treasure, he has a map that is in the shape of a regular hexagon with side length 8 miles. He labels the vertices A-F going clockwise. The path he has to take is a triangle with the vertices ACE. What is the perimeter of the triangle ACE?
15. \_\_\_\_\_\_ Evaluate 