

**Student Name:** \_\_\_\_\_

## **Welcome to the Tenth Annual Harrison Chen Memorial Math Competition!**

*Please observe the following information for the competition.*

- Scoring. All problems will be worth one point. This means that the most difficult problems will be worth the same as the more straightforward problems. Your goal is to get as many correct as you can within the 60 minutes allowed.
- Answer Key. You **MUST** write the answer in the answer key provided. If you do not, no credit will be given, so make sure you write down your answer in the key as soon as you finish a problem!
- Work. You **MUST** show work in order to receive credit for a problem. Do not solve problems in your head! If you do not explain how you arrived at an answer, no credit will be given.
- Tiebreakers. In the event of a tie score **ONLY**, tiebreak points will be awarded. Question 1 will be worth 1 tiebreak point, Question 2 will be worth 2 tiebreak points, Question 3 will be worth 3 tiebreak points, and so on until Question 12, which will be worth 12 tiebreak points.
- Pencils. We have provided pencils for you to use. If you need additional pencils, ask.
- Erasers. Because you only have 60 minutes to solve these problems, we strongly recommend that you do not erase any work. If you try something and it doesn't lead to the correct answer, that's fine! Just leave the work on the page and keep going. Neatness does not count for this set of problems.
- Calculators. You may not use calculators of any kind for this contest. If you brought one to the contest, give it to the TA, who will return it to you when the contest is complete.
- Scratch Paper. You should have enough space to solve a problem directly where the question is written. If you still need more paper for your work, raise your hand and it will be provided.
- Food. No food in the contest room. All students will receive snacks once the contest finishes though!
- Bathroom. Because you have only 60 minutes for 12 problems, we strongly urge you to use the bathroom before or after – not during – the contest. If you must use the bathroom, raise your hand and inform the TA.
- Definitions. If you do not understand what a word means, raise your hand and ask the TA quietly. **You may not ask for any help/hints on how a problem should be solved.** You may only ask questions if you do not know a specific word. Part of the challenge is reading the problems and figuring out what method must be used to solve them.
- Suggestion. Read the questions **CAREFULLY** before you solve, because sometimes one word can change the entire solution!
- Time. You will be allowed 60 minutes for the competition. Do not open this booklet until time starts. Once time begins, if you finish early, you have two options: check your work (strongly suggested), or turn in the contest early and be dismissed for the remaining time. If you leave early, you may not return to change any answers, so don't leave early unless you know you are completely finished.

*Thank you for participating! Remember to HAVE FUN with these  
challenging (and somewhat ridiculous) problems.*