XVIII MANHATTAN MATHEMATICAL OLYMPIAD

will take place on

SATURDAY, APRIL 11, 2015

from 9 a.m. to 12 p.m at Cardwell Hall, KSU, room 101

Competitions in three separate categories: grades 5-6, grades 7-8 and 9-12.

Solution session and awarding prizes from 3pm to 5:00 pm. No advanced registration is required.

For questions contact: Prof. Yan Soibelman

785-532-0584, e-mail soibel@math.ksu.edu

web: http://www.math.ksu.edu/events/hscomp/olympiad

TRY THIS OUT:

1. Is it possible to place 25 pennies on a table such way that each of them touches exactly three others?

2. The squares of the 8 X 8 chess board are colored into 4 colors so that every 2 X 2 square contains each color exactly once. Prove that the four corners of the chess board are colored in different colors.

3. Is it possible that lengths of all sides of one triangle are less than 1 centimeter, lengths of all sides of another triangle are bigger than 100 meters but the area of the first triangle is larger than the area of the second one?