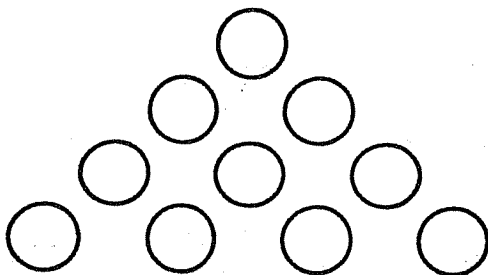# MATH SUPERSTARS – 6
Uranus, IV

Name: _____

(This shows my own thinking.)

★ 1. In one 7-day week, how often does a clock show 3 o'clock?

Answer:_____

★★★ 2. Here is a triangle made of discs. Move only 3 discs and turn the triangle upside down. Draw arrows to show how you would move them. Practice with pennies if it will help you.

★★ 3. A furniture shop makes only tables and stools. Each table has four legs and each stool has three legs. The legs for both the tables and stools are the same. How many tables and how many stools can be made from 32 legs if some of each are made?

Answer: _____ tables and _____ stools

★ 4. If a regular octahedron has a surface area of 48 square inches, what is the surface area of each face?

Answer:_____

★★ 5. The thousands digit of a 4-digit number is 4 greater than the hundreds digit. The tens digit is 2 times the thousands digit. The ones digit is one-half the thousands digit. What is the number?

Answer: _____

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★★ 6. If you put a million sheets of 30-cm long paper end-to-end, how many kilometers long would the paper be from beginning to end?

Answer: _____

★★★★ 7. Amy, Betty, David and Ed have last names of Gonzales, Jackson, Keller, and Perez, though not in that order. They recently participated in a 1500-meter race and they all finished the race in a different position. From the clues below match the first and last names and determine in what order they finished the race.

   a) Jackson said she would have finished higher if she had not slipped at the start of the race.
   b) Ed finished ahead of Perez, but behind Betty.
   c) Amy finished directly behind Gonzales.
   d) Neither David nor Ed finished third.

   Answer: Amy _____finished ____; Betty_____finished ____;

   David _____finished ____; Ed_____ finished ____.

★★ 8. The newspaper used rounded off numbers to report that about 70,000 people attended the University of Florida vs. Florida State University football game last year. What is the greatest number of people that could have attended that game?

Answer: _____

★★★ 9. A farmer has three roosters. She keeps them in three pens like the ones shown below. She sold a cow and bought another rooster, but did not have enough money to build another pen. How can she rearrange the three pens she has to make a fourth pen? All the pens should be the same size and shape. Draw a picture below to show your solution.