MATH PROBLEM SOLVING:

1. Andrew and Rebecca have the same number of colored pencils. Andrew has 3 full boxes and 4 loose pencils. Rebecca has 2 full boxes and 12 loose pencils. How many pencils in a box?
2. The Trans-Canada Highway is the longest paved road in the world. When opening in 1962, it was about 7700km long. Canada’s longest river, the Mackenzie River, is about 4200km long. About how much longer is the Trans-Canada Highway?
3. 2 cuts through the center of a pizza divide it into 4 pieces. How many cuts through the center of the pizza divide it into 32 pieces?
4. In a gathering of 4 people, 6 handshakes are possible if each person shakes hands with each of the others. How many handshakes are possible in a gathering of 9 people?
5. Lake Superior has an area of 82 103km2. Lake Michigan has an area of 56 016km2.   
   a) What is the total area of the 2 lakes?  
   b) How much larger is Lake Superior?
6. a) Don Vesco set a motorcycle speed record. He averaged a speed of 135 m/s (meters per second) for a period of 25s. What was the distance travelled in this time?
7. In 1909, WE Cook set the world motorcycle speed record with a speed of 34 m/s. How many times as fast as the 1909 motorcycles are the motorcycles of today? (Don Vesco’s record)
8. Lightening travels to Earth at about 750km/second. If people could travel at lightning speed, how far could they travel in one hour?