Dividing a line into equal parts

CTTI first geometry workshop

October 12, 2012

Before handing out the instruction sheet.
Each group choose a number less than 10 and greater than 2

1. After the number is chosen, the group will be asked to fold a pipe cleaner to divide it into as many equal pieces as the number they chose.

2. Now tables try to repeat the process using various manipulatives. Possibilities include:

   string, paper, compass and paper, straight edge and paper, lined paper

3. Group Discussion of the following topics.

   (a) What geometrical ideas and techniques can students appreciate from this activity?

   (b) Why does the procedure your group used work? How accurate was it?

   (c) What geometrical principles are needed to generate your construction for string folding? (for other manipulatives). Does this answer depend on what n is?

   (d) Why wasn't a ruler among the manipulatives?