An Investigation of Golomb Rulers Worksheet

Teacher Copy

Directions: Search online to answer the following questions. Answers should be in complete sentences.

Here are two very good websites:
http://en.wikipedia.org/wiki/Golomb_ruler
http://www.maa.org/editorial/mathgames/mathgames_11_15_04.html

1) What is a Golomb Ruler?

2) What is the length of a Golomb Ruler with 4 notches? Draw the ruler.

3.) Describe the relationship between the sparse ruler of length six and the Golomb ruler with 4 notches. This ruler has a special name. What is it and what makes is special?

4) What is the length of a Golomb Ruler with 16 notches?

5) What is the largest Golomb Ruler found to date?

6) Find and describe in detail an application of Golomb Rulers.