

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 it 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.

