



# Cub Scout Mathematics

## Cub Scout Academics and Sports Workbook

This workbook is not required but can help you with this award. Belt Loops and Pins may be earned more than once.

Links to other workbooks and resources are at the end of this workbook: [Online Resources](#).

Send comments to the workbook developer: [craig@craiglincoln.com](mailto:craig@craiglincoln.com). Workbook updated: April 2008.

Scout's Name: \_\_\_\_\_

Pack: \_\_\_\_\_

### **Cub Scout Mathematics Belt Loop** (See the [Pin Requirements](#) below.)

**Complete these three requirements:**

1. Do five activities within your home or school that require the use of mathematics.

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Explain to your den how you used everyday math. \_\_\_\_\_

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2. Keep track of the money you earn and spend for three weeks.



Find out about the history of the metric system of measurement. \_\_\_\_\_

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**Cub Scout Mathematics Pin**

**Earn the Mathematics belt loop, and complete one from each of the five areas below:**

I. Geometry is related to measurement but also deals with objects and positions in space.

1. Many objects can be recognized by their distinctive shapes: a tree, a piece of broccoli, a violin. Collect 12 items that can be recognized, classified, and labeled by their distinctive shape or outline. \_\_\_\_\_

2. Select a single shape or figure. Observe the world around you for at least a week and keep a record of where you see this shape or figure and how it is used. \_\_\_\_\_

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3. Study geometry in architecture by exploring your neighborhood or community. Look at different types of buildings-houses, churches, businesses, etc.-and create a presentation (a set of photographs, a collage of pictures from newspapers and magazines, a model) that you can share with your den or pack to show what you have seen and learned about shapes in architecture. \_\_\_\_\_

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II. Calculating is adding, subtracting, multiplying, and dividing numbers.

1. Learn how an abacus or slide rule works and teach it to a friend or to your den or pack. \_\_\_\_\_

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2. Go shopping with an adult and use a calculator to add up how much the items you buy will cost. See whether your total equals the total at check out. \_\_\_\_\_

3. Visit a bank and have someone there explain to you about how interest works. Use the current interest rate and calculate how much interest different sums of money will earn. \_\_\_\_\_

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III. Statistics is collecting and organizing numerical information and studying patterns.

1. Explain the meaning of these statistical words and tools: data, \_\_\_\_\_

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averaging, \_\_\_\_\_

\_\_\_\_\_

tally marks, \_\_\_\_\_

\_\_\_\_\_

bar graph, \_\_\_\_\_

\_\_\_\_\_

line graph,

pie chart,

and percentage. \_\_\_\_\_

\_\_\_\_\_

2. Conduct an opinion survey through which you collect data to answer a question, \_\_\_\_\_

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and then show your results with a chart or graph. For instance: What is the favorite food of the Cub Scouts in your pack (chart how many like pizza, how many like hamburgers, etc.).

3. Study a city newspaper to find as many examples as you can of statistical information. \_\_\_\_\_

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