

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: <a href="mailto:craig@c

Sco	ut's Name:	Pack:	
	b Scout Mathematics Belt Loop (See the Pin Requirements below.) nplete these three requirements:		
1.	Do five activities within your home or school that require the use of mathemat	tics	
١.	Do live activities within your nome or school tractrequire the use of mathematics.		
	Explain to your den how you used everyday math.		
2.	Keep track of the money you earn and spend for three weeks.		

<u>te</u>				
	<u>Transaction</u> <u>Description</u>	<u>Deposit</u>	<u>Withdrawal</u>	<u>Balance</u>
	_			
	_			
Measure	e five items using both metric			

Cub S	Scout Mathematics Award p. 3	Cub Scout Workbook	Scout's Name:		
	Find out about the history of the meti	ric system of measurement.			
<u>Cub</u>	Scout Mathematics Pin				
Earn	the Mathematics belt loop, and con	plete one from each of the five a	reas below:		
l.	Geometry is related to measurement	but also deals with objects and pos	sitions in space.		
1.		ny objects can be recognized by their distinctive shapes: a tree, a piece of broccoli, a violin. Collect 12 items that can be or outline.			
2.			st a week and keep a record of where you see this		
□ 3.	churches, businesses, etcand crea	te a presentation (a set of photogra pare with your den or pack to show	nunity. Look at different types of buildings-houses, phs, a collage of pictures from newspapers and what you have seen and learned about shapes in		
II.	Calculating is adding, subtracting, m Learn how an abacus or slide rule w	1 7 3	ur den or pack.		
_			· -		
<u> </u>	•	•	items you buy will cost. See whether your total		
☐ 3.		•	works. Use the current interest rate and calculate		
III.	Statistics is collecting and organizing	•	•		
<u> </u>	Explain the meaning of these statistic	cal words and tools: data,			
	averaging,				

Cub S	Scout Mathematics Award p. 4	Cub Scout Workbook	Scout's Name:
	tally marks,		
	line graph,		
	pie chart,		
	and percentage.		
2.	Conduct an opinion survey through which you collect data to answer a question,		
	and then show your results with a ch (chart how many like pizza, how man		the favorite food of the Cub Scouts in your pack
3.	Study a city newspaper to find as ma	any examples as you can of statistic	al information.

Cub S	Scout Mathematics Award p. 5 Cub Scout Workbook Scout's Name:
□ 4.	Learn to use a computer spreadsheet
IV.	Probability helps us know the chance or likelihood of something happening.
1.	Explain to your den how a meteorologist or insurance company (or someone else) might use the mathematics of probability to predict what might happen in the future (i.e., the chance that it might rain, or the chance that someone might be in a car accident).
<u> </u>	Conduct and keep a record of a coin toss probability experiment.
3.	Guess the probability of your sneaker landing on its bottom, top, or side, and then flip it 100 times to find out which way it lands. Use this probability to predict how a friend's sneaker will land.
V1.	Measuring is using a unit to express how long or how big something is, or how much of it there is. Interview four adults in different occupations to see how they use measurement in their jobs.
<u> </u>	Measure how tall someone is
	Have them measure you
☐ 3.	Measure how you use your time by keeping a diary or log of what you do for a week.

ib Scout Mathematics Award p. 6	Cub Scout Workbook	Scouts Name:
Then make a chart or graph to display	y how you spend your time.	
. Measure, mix, and cook at least two re	ecipes. Share your snacks with far	mily, friends, or your den.
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ne Resources (Use any Internet resou	rce with caution and only with you	r parent's or guardian's supervision.)
•		r parent's or guardian's supervision.)
Scout Advancement: http://usscouts.c	org/advance/cubscout/ranks.asp	r parent's or guardian's supervision.) eritbadge.org/wiki/index.php?title=Wolf
Scout Advancement: http://usscouts.c	p?title=Tiger Wolf: http://me	eritbadge.org/wiki/index.php?title=Wolf
Scout Advancement: http://usscouts.cger: http://meritbadge.org/wiki/index.phpear: http://meritbadge.org/wiki/index.php	p?title=Tiger Wolf: http://me	eritbadge.org/wiki/index.php?title=Wolf ://meritbadge.org/wiki/index.php?title=Webelos
Scout Advancement: http://usscouts.coger: http://meritbadge.org/wiki/index.phpear: http://meritbadge.org/wiki/index.php Scout Academics and Sports Workbe	p?title=Tiger Wolf: http://me p?title=Bear Webelos: http://ooks: ► meritbadge.org -or- ► A	eritbadge.org/wiki/index.php?title=Wolf c://meritbadge.org/wiki/index.php?title=Webelos Academics / Sports
ne Resources (Use any Internet resources Scout Advancement: http://usscouts.co ger: http://meritbadge.org/wiki/index.php ear: http://meritbadge.org/wiki/index.php Scout Academics and Sports Workbooks: Delos Activity Badge Workbooks: Scouts of America: http://www.scoutin	prg/advance/cubscout/ranks.asp p?title=Tiger Wolf: http://me p?title=Bear Webelos: http://ooks: ► meritbadge.org -or- ► Meritbadge.org	eritbadge.org/wiki/index.php?title=Wolf t://meritbadge.org/wiki/index.php?title=Webelos Academics / Sports org