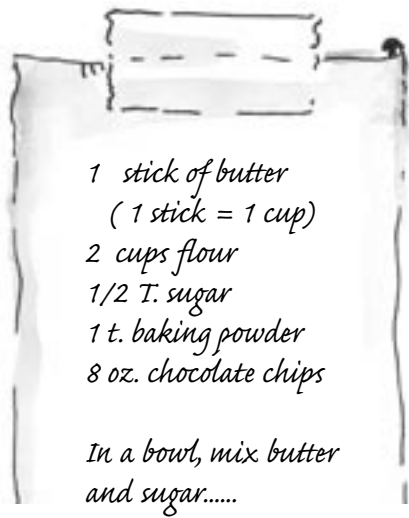


CHOCOLATE CHIP COOKIE GRAPHS

MATERIALS

Coordinate Grid Paper,
page 124
scratch paper
colored pencils
or pens



Why is this important?

Children have been creating and graphing simple patterns since early elementary school. In middle school your child needs to understand the relationship between the data in a table and its pictorial representation on a graph.

Understanding the relationship between numbers and their graphic display is important to success in algebra and geometry. In this activity you will see how increasing the amount of butter will help you bake a certain number of chocolate chip cookies. When you know how much butter you have, you can figure out how many dozen cookies you can bake or vice versa.

How

- Look at the table below. It tells you how many chocolate chip cookies you can make with a certain amount of butter.
- Work with a partner, and talk together about the patterns you see.
- Once you have discovered a pattern, complete the table below. How many cookies could you make with 7 cups of butter? 8 or 9 cups? How do you know?
- In order to place (plot) the numbers on a graph, we need to make “ordered pairs.” Our ordered pairs come from listing first the amount of butter, then the number of cookies (in dozens).
- Complete the Ordered Pairs column in the table below.

Graphing the pattern

Amount of Butter	Chocolate Chip Cookies (in dozens)	Ordered Pairs
1 cup	2	(1, 2)
2 cups	4	(2, 4)
3 cups	6	
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