

Homework Help for Math Out of the Box

Developing Number Concepts: Stories and Statements, Module B

Information about homework assignments is provided to help parents and other homework helpers with the mathematics ideas that are being developed. The homework help includes definitions of key vocabulary, questions to ask that will help students connect to the classroom investigations, problem solving examples, and other helpful explanations.

Homework 4A1

In Lessons 1–3, students investigate fractions and compare them to benchmarks of 0, $\frac{1}{2}$ and 1.

Set Model for $\frac{1}{4}$ 

Area Model for $\frac{1}{4}$ 

Homework 4B1

In Lessons 4–9 students investigate decimals.

When comparing numbers the following symbols and words can be used.

< is less than > is greater than = is equal to

Homework 4C1

In Lessons 10–12, students add and subtract decimals. Students should mentally check their answers by rounding. For example, when adding $28.35 + 48.02$, students can mentally add 30 and 50 and know that an answer near 80 is reasonable.

Homework 4D1

In Lessons 13–15, students apply their knowledge of decimals to money.

Homework 4E1

In Lessons 16–18, negative numbers are investigated with real life connections such as temperature.

Homework 4F1

Lessons 19-21 introduce probability. Flipping a coin is one way to help students analyze possible outcomes, conduct an experiment, and describe the results.

Homework 4G1

Lessons 21-24 introduce the critical thinking and problem strategies represented in discrete mathematics.

Example of a List

Possible Combinations			
How many combinations can be made with two kinds of juice (orange and apple) and two kinds of cookies (chocolate chip and fudge)?			
<u>List A</u>		<u>List B</u>	
<u>Juice</u>	<u>Cookies</u>	<u>Cookies</u>	<u>Juice</u>
Orange	Chocolate chip	Chocolate chip	Orange
Orange	Fudge	Chocolate chip	Apple
Apple	Chocolate chip	Fudge	Orange
Apple	Fudge	Fudge	Apple

Example of a Tree Diagram

