

Cheese Logic Puzzle

Grade Level: 4-8

Lesson Overview

A logic puzzle is a problem that can be solved using deductive reasoning. A deduction is a logical conclusion drawn from two or more true statements. One common type of logic puzzle involves a tool known as an elimination grid. In this activity, students will learn about machines then use an elimination grid to solve a puzzle.

Student Objectives

1. Practice logical thinking skills utilizing charts to draw conclusions based on information provided while learning about machines.

Materials

- ✓ Cheese Logic Puzzle worksheet

Procedure

Allow students time to complete the Cheese Logic Puzzle and then compare answers.

If you have not given your students a logic puzzle previously, you may want to help them understand the steps in finding an answer. Please keep in mind that not all of the information is given. Students should use the information available and the process of elimination to find the answers

Extension Activities

1. Cud to Curd lesson correlates well with this lesson.

Standard

Illinois Mathematics Standard

7.SP.8b: Find probabilities of compound events using organized lists, tables, tree diagrams, and simulation. b. Represent sample spaces for compound events using methods such as organized lists, tables and tree diagrams.

The **M**ultidisciplinary **A**gricultural **I**ntegrated **C**urriculum (mAGic) was created in 2004 under the leadership of the Illinois State Board of Education (ISBE) and the Facilitating Coordination in Agricultural Education Project (FCAE). Funding was made available through the FCAE grant budget from the agricultural education line item of the ISBE budget. This revision, as printed, was developed in September 2021.



These mAGic lessons are designed to bring agriculture to life in your classroom. They address the Illinois Learning Standards in math, science, English language arts and social studies.

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Name _____

Cheese Logic Puzzle

Six children sat together at a lunch table. Each was eating a different type of cheese. Use the clues to fill out the chart to help you match the child and their favorite cheese. Put your answers at the bottom of the page.

Student Name	Swiss Cheese	Cheddar Cheese	American Cheese	String Cheese	Mozzarella Cheese	Cottage Cheese
Bill						
Anne						
Patricia						
George						
Beth						
Larry						

- Bill likes to eat his cheese with a spoon, because it is so soft and lumpy.
- Anne sat next to the boy who ate string cheese.
- Patricia likes to eat the cheese with big holes in it.
- Larry eats the cheese that is named after the United States.
- Anne says the name of her cheese rhymes with better because it is the best.

Bill likes _____ cheese.

Anne likes _____ cheese.

Patricia likes _____ cheese.

George likes _____ cheese.

Beth likes _____ cheese.

Larry likes _____ cheese.

Cheese Logic Puzzle ANSWER KEY

Six children sat together at a lunch table. Each was eating a different type of cheese. Use the clues to fill out the chart to help you match the child and their favorite cheese. Put your answers at the bottom of the page.

Student Name	Swiss Cheese	Cheddar Cheese	American Cheese	String Cheese	Mozzarella Cheese	Cottage Cheese
Bill						YES
Anne		YES				
Patricia	YES					
George				YES		
Beth					YES	
Larry			YES			

- Bill likes to eat his cheese with a spoon, because it is so soft and lumpy.
- Anne sat next to the boy who ate string cheese.
- Patricia likes to eat the cheese with big holes in it.
- Larry eats the cheese that is named after the United States.
- Anne says the name of her cheese rhymes with better because it is the best.

Bill likes cottage cheese.

Anne likes cheddar cheese.

Patricia likes Swiss cheese.

George likes string cheese.

Beth likes mozzarella cheese.

Larry likes American cheese.