

Egg 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 eggs then use an elimination grid to solve a puzzle.

Student Objective

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

Materials

- ✓ Egg Logic Puzzle Worksheet

Procedure

Allow students time to complete the Egg 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.

Standards

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.

Illinois English Language Arts Standard

RST.6-8.1 Cite specific textual evidence to support analysis of science and technical texts.

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 _____

Egg Logic Puzzle Worksheet

The chart below helps you identify what you've learned from each clue. In the square where the vertical and horizontal meet is where you mark your possible answers. Read each clue and record the information on the chart. When you find a true match put a yes in the appropriate box. When you prove a combination false, put an X in the box. Continue until you find all the answers. Ted, Sue, Kathy, Jim and Alex went out to breakfast. Each of them ordered a different drink and a different type of egg. See if you can find out who ordered what by using the clues below. You may use the chart to help you. Fill in the answers at the bottom of the page.

Type	Jim	Kathy	Alex	Sue	Ted
Poached					
Scrambled					
Fried					
Boiled					
Omelet					
Orange Juice					
Tomato Juice					
Hot Chocolate					
Water					
Milk					

- Jim was the only person that got free refills of his drink and had to peel his egg.
- The person who ate a poached egg had a hot drink.
- Kathy's drink probably was imported to Illinois from Florida.
- Alex had the same vegetable in both his egg and drink.
- Sue's name and the type of egg she ate began with the same letter.
- Ted asked the waitress for some marshmallows to melt in his drink.

Jim had _____ to eat and _____ to drink.

Kathy had _____ to eat and _____ to drink.

Alex had _____ to eat and _____ to drink.

Sue had _____ to eat and _____ to drink.

Ted had _____ to eat and _____ to drink.

Egg Logic Puzzle Worksheet ANSWER KEY

The chart below helps you identify what you've learned from each clue. In the square where the vertical and horizontal meet is where you mark your possible answers. Read each clue and record the information on the chart. When you find a true match put a yes in the appropriate box. When you prove a combination false, put an X in the box. Continue until you find all the answers. Ted, Sue, Kathy, Jim and Alex went out to breakfast. Each of them ordered a different drink and a different type of egg. See if you can find out who ordered what by using the clues below. You may use the chart to help you. Fill in the answers at the bottom of the page.

Type	Jim	Kathy	Alex	Sue	Ted
Poached	X	X	X	X	YES
Scrambled	X	X	X	YES	X
Fried	X	YES	X	X	X
Boiled	YES	X	X	X	X
Omelet	X	X	YES	X	X
Orange Juice	X	YES	X	X	X
Tomato Juice	X	X	YES	X	X
Hot Chocolate	X	X	X	X	YES
Water	YES	X	X	X	X
Milk	X	X	X	YES	X

- Jim was the only person that got free refills of his drink and had to peel his egg.
- The person who ate a poached egg had a hot drink.
- Kathy's drink probably was imported to Illinois from Florida.
- Alex had the same vegetable in both his egg and drink.
- Sue's name and the type of egg she ate began with the same letter.
- Ted asked the waitress for some marshmallows to melt in his drink.

Jim had boiled eggs to eat and water to drink.
 Kathy had fried eggs to eat and orange juice to drink.
 Alex had an omelet to eat and tomato juice to drink.
 Sue had scramble eggs to eat and milk to drink.
 Ted had poached eggs to eat and hot chocolate to drink.