

Logic Puzzle Tutorial Questions Answer Key

Content Questions, Applied Clue Questions & Puzzle Answers

By: Dr. Anne Sinatra (anne.m.sinatra.ctr@us.army.mil)

Tutorial Content Questions

Answer indicated by *

- 1) When you know a piece of information is true...
 - A) Put an X in the corresponding cell on the grid
 - B) Put an O in the corresponding cell on the grid *
 - C) Put an Y in the corresponding cell on the grid
 - D) Make a note to yourself, but do not put anything on your grid
- 2) Which of the following is not a component of Logic Grid Puzzles?
 - A) The Grid
 - B) The Clues
 - C) The Score Board *
 - D) The Story
- 3) What type of reasoning is used in solving Logic Puzzles?
 - A) Inductive
 - B) Deductive *
 - C) Conductive
 - D) Intersection
- 4) When you know a piece of information is false...
 - A) Put an X in the corresponding cell on the grid *
 - B) Put an O in the corresponding cell on the grid
 - C) Put an Y in the corresponding cell on the grid
 - D) Make a note to yourself, but do not put anything on your grid
- 5) Which of the following is NOT a type of logic puzzle clue?
 - A) Either/Or Clue
 - B) Of A and B, and C and D Clue
 - C) True Relationship Clue
 - D) Tentative Relationship Clue *

6) The Grid helps you to...

- A) Keep track of the clues.
- B) Solve the puzzle.
- C) Record only what you do not know.
- D) Both A and B *

7) A List Clue...

- A) Is the only clue you need to solve a puzzle.
- B) Tells you of a series of items that are all different from each other. *
- C) Does not provide you with any information.
- D) Is not helpful.

8) A Neither/Nor Clue...

- A) Provides you with three true relationships.
- B) Does not provide you with any information.
- C) Provides you with three false relationships *
- D) Are only helpful at the end of the puzzle.

9) The Clues ...

- A) Provide information to help you solve the puzzle. *
- B) Only provide false relationships.
- C) Set up the situation for the puzzle.
- D) Do not provide useful information.

10) In order to solve the puzzle you should...

- A) Work through all of the clues.
- B) Use process of elimination to establish additional relationships.
- C) Look at the partially completed grid to see if previously established information can help you solve the puzzle.
- D) All of the above. *

True or False Questions:

11) It is never helpful to go through the clues more than once.

- A) True
- B) False *

12) A True Relationship clue not only gives you a true relationship, but also indicates some false relationships.

- A) True *
- B) False

13) Either/Or and Neither/Nor Clues are the same.

- A) True
- B) False *

14) Sometimes it can be helpful to examine the relationships on your partially solved grid in addition to reading the provided clues.

- A) True *
- B) False

15) A good way to practice Deductive Reasoning is through completing Logic Grid Puzzles.

- A) True *
- B) False

16) Each object or descriptor is used only once in a Logic Grid Puzzle.

- A) True *
- B) False

17) All possible relationships are represented on the grid.

- A) True *
- B) False

18) There is only one type of clue in a Logic Grid Puzzle.

- A) True
- B) False *

19) As you work on a Logic Grid Puzzle, you only establish true relationships.

- A) True
- B) False *

20) The story sets up the situation for the puzzle.

- A) True *
- B) False

Applied Logic Puzzle Clue Questions

1)

Story:

During the week of a big sale, a Pet Shop sold three different pets: a dog, a cat, and a bird. Each pet was sold on a different day (Wednesday, Thursday, or Friday), and for a different price (\$10, \$25, \$50).

Clue: Neither the pet sold on Friday nor the Cat cost \$10.

- A) The cat was not sold on Friday *
- B) The cat was not sold for \$10 *
- C) The pet sold on Friday was not sold for \$10 *
- D) The dog was sold for \$10

Answers: A, B, C

NEITHER/NOR CLUE

-

2)

Story:

An art school offers a different type of art class (painting, ceramics, drawing, photography) each weeknight that they are in session (Monday, Tuesday, Thursday, Friday). Each of the classes is scheduled to start at a different time.

Clue: The four classes are Monday's class, Friday's class, the Ceramics class, and the class that starts at 6:30pm.

- A) The Ceramics class is not on Monday or Friday, and does not start at 6:30pm. *
- B) The 6:30pm class is not on Monday or Friday. *
- C) The Ceramics class starts at 6:30pm.
- D) The Ceramics Class is on Thursday.

Answers: A, B

LIST CLUE

-

3)

Story:

Three different types of television shows (science fiction, reality, sitcom) aired on Friday night. Each show had a different number of viewers (3 million, 5 million, 7 million).

Clue: The science fiction show had 3 million viewers.

- A) The science fiction show had 3 million viewers. *
- B) The reality show had 5 million viewers.
- C) The reality show and sitcom did not have 3 million viewers. *
- D) The sitcom had 5 million viewers.

Answers: A, C

TRUE RELATIONSHIP CLUE

-

4)

Story:

Three people received a summons for Jury Duty. Each one had a different profession (banker, doctor, waitress), and reported at a different time (9:00 am, 9:30 am, 10:00 am).

Clue: The waitress did not report to Jury Duty at 9:00 am.

- A) The Banker reported to Jury Duty at 9:00 am.
- B) The waitress did not report to Jury Duty at 9:00 am. *
- C) The waitress did not report to Jury Duty at 9:30 am.
- D) The waitress either reported to Jury Duty at 9:30 am or 10:00 am. *

Answers: B, D

FALSE RELATIONSHIP CLUE

-

5)

Story:

Three different theme park rides (carousel, ferris wheel, rollercoaster) each had different height requirements (45 inches, 50 inches, 55 inches).

Clue: Of the Ferris Wheel and the Rollercoaster, one had a height requirement of 45 inches, and the other had a requirement of 55 inches.

A) The Ferris Wheel may have a height requirement of 45 inches or 55 inches. *

B) The Rollercoaster may have a height requirement of 45 inches or 55 inches. *

C) The Carousel has a height requirement of 50 inches.*

D) The Rollercoaster has a height requirement of 50 inches.

Answers: A, B, C

OF A AND B, AND C AND D CLUE

-

6)

Story:

Tickets for three different types of concerts (Rock, Instrumental, and Pop) went on sale during the week of January 2nd. Each of the concerts was at a different time (8:00pm, 8:30pm, 9:00pm) and on a different date (February 1st, February 3rd, February 11th).

Clue: Either the Rock concert or the 8:00pm show was scheduled for February 1st.

A) The Rock concert is not at 8:00 pm. *

B) The Rock concert may be on February 1st. *

C) The 8:00 pm show may be on February 1st. *

D) The 8:00 pm show is on February 3rd or February 11th.

Answers: A, B, C

EITHER/OR CLUE

-

7)

Story:

A store was having a sale and sold three shirts within the first hour of opening for the day. Each shirt was a different color (red, blue, green), a different price (\$10, \$15, \$20) and a different size (small, medium, large).

Clue: The three shirts were the red one, the one that cost \$15 and the large shirt.

A) The red shirt does not cost \$15. *

B) The large shirt does not cost \$15. *

C) The red shirt is not large. *

D) The red shirt is either small or medium. *

Answers: A, B, C, D

LIST CLUE

-

8)

Story:

A book publisher released three different novels (mystery, science fiction, and biography) in the month of May. Each book sold a different number of copies (100, 500, 700), and received a different grade from the critics (A, B, C).

Clue: The Science Fiction novel received an A from the critics.

A) The Mystery Novel received an A from the critics.

B) The Science Fiction novel received an A from the critics. *

C) The Biography received an A from the critics.

D) The Science Fiction Novel did not receive an A from the critics.

Answer: B

TRUE RELATIONSHIP

-

9)

Story:

A mother went shopping and bought three presents (videogame, book, photo album). She planned to give one present to each of her three children, who were all different ages (11 years old, 14 years old, 16 years old).

Clue: The 11 year old was not given the photo album.

- A) The 11 year old was not given the photo album. *
- B) Either the 14 year old or the 16 year old was given the photo album. *
- C) The 11 year old was given the photo album.
- D) The 11 year old either received the videogame or book. *

Answer: A, B, D

FALSE RELATIONSHIP

-

10)

Story:

Three students who were in three different years of college (Freshman, Sophomore, Junior) registered for three different classes (Drama, Computer Science, Mathematics). Each of the students had a different registration appointment time (8:00 am, 9:00 am, 10:00am).

Clue: Either the student who had the registration appointment at 8:00am or the student who registered for Drama was a Freshman.

- A) The student who had the registration appointment at 8:00 am did not register for Drama. *
- B) The student who registered for Drama may have been a Freshman. *
- C) The student who registered at 8:00 am may have been a Freshman. *
- D) The student who registered at 8:00 am may have been a Sophomore. *

Answer: A, B, C, D

EITHER/OR CLUE

-

11)

Story:

A woman decorated three rooms in her house (Kitchen, Bathroom, Living Room) with drapes. Each set of drapes that she put in the rooms were a different color (Purple, Red, Yellow), and a different length (22 inches, 32 inches, 42 inches).

Clue: Neither the drapes in the kitchen, nor the purple ones were 32 inches long.

- A) The drapes in the kitchen were not purple. *
- B) The drapes in the kitchen were not 32 inches long. *
- C) The purple drapes were not 32 inches long. *
- D) The drapes in the bathroom were purple.

Answer: A, B, C

NEITHER/NOR CLUE

-

12)

Story:

A group of friends wanted to watch a movie, and discovered that the three remote controls they needed (Television, DVD player, Surround Sound Speakers) were out of batteries. Each remote took a different type (AA, C, D) and number of batteries (2, 4, 6).

Clue: Of the Television remote and the DVD player remote, one took AA batteries and the other required 4 batteries.

- A) The Television remote may take AA batteries. *
- B) The DVD player remote may take AA batteries. *
- C) The Television remote may require 4 batteries. *
- D) The DVD player remote may require 4 batteries. *

Answer: A, B, C, D

OF A AND B, AND C AND D CLUE

Logic Puzzle Answers

- 1) **Pizza ... Soda ... Cake**
- 2) **Ravioli ... Lemonade ... Cannoli**
- 3) **Spaghetti ... Tiramisu ... Iced Tea**

Clues

Clue 1) The same person who ordered the cake ordered the pizza.

Clue 2) The person who ordered the lemonade did not order the spaghetti.

Clue 3) The three orders were: the one that ordered the tiramisu, the one with the pizza, and the one with the lemonade.

Clue 4) Neither the person who ordered the cannoli, nor the person who ordered the spaghetti had the soda.

Clue 5) Of the person who ordered the cannoli, and the person who ordered the cake, one ordered the ravioli, and the other had the soda.

- Please complete the grid and solve the puzzle.
- Once you have finished it, click the blue forward arrow.
- If you have not completed it in 10 minutes, it will move forward automatically.

Click on your selection:

X

O

Erase

Key:

X = False

O = True

		Meal			Drink		
		Pizza	Ravioli	Spaghetti	Iced Tea	Lemonade	Soda
Dessert	Cake	O	X	X	X	X	O
	Cannoli	X	O	X	X	O	X
	Tiramisu	X	X	O	O	X	X
Drink	Iced Tea	X	X	O			
	Lemonade	X	O	X			
	Soda	O	X	X			



To see the entered results of the participant, open the **Results.xlsx** file. There will be an entry for each of the cells in the grid. The first row is considered **Row A**, the second is **Row B**, etc. The first column is considered **Column 1**, the second is **Column 2**, etc. Therefore, the intersection of **Cake** and **Pizza** is at **A1**, the intersection of **Iced Tea** and **Spaghetti** is **D3**, the intersection of **Lemonade** and **Cannoli** is **B5**, etc.