



Butler University Digital Commons @ Butler University

Scholarship and Professional Work - LAS

College of Liberal Arts & Sciences

3-2016

The White Rabbit 12-Puzzle

Chris Morgan

Jeremiah Farrell Butler University, jfarrell@butler.edu

Follow this and additional works at: https://digitalcommons.butler.edu/facsch_papers



Part of the Geometry and Topology Commons, and the Other Mathematics Commons

Recommended Citation

Morgan, Chris and Farrell, Jeremiah, "The White Rabbit 12-Puzzle" G4G12 Exchange Book / (2016): 196-198.

Available at https://digitalcommons.butler.edu/facsch_papers/1016

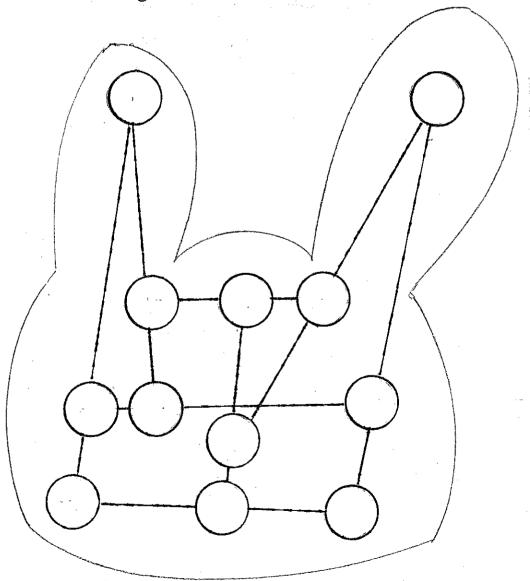
This Article is brought to you for free and open access by the College of Liberal Arts & Sciences at Digital Commons @ Butler University. It has been accepted for inclusion in Scholarship and Professional Work - LAS by an authorized administrator of Digital Commons @ Butler University. For more information, please contact digitalscholarship@butler.edu.

An Exchange for G4G12 Atlanta, March 2016

THE WHITE RABBIT 12-PUZZLE

By Chris Morgan And Jeremiah Farrell

Martin Gardner's fondness for the characters and themes of Lewis Carroll's "Alice" is well-known and to honor Gardner we offer two word puzzles to be played on the 12-node diagram of the WHITE RABBIT.

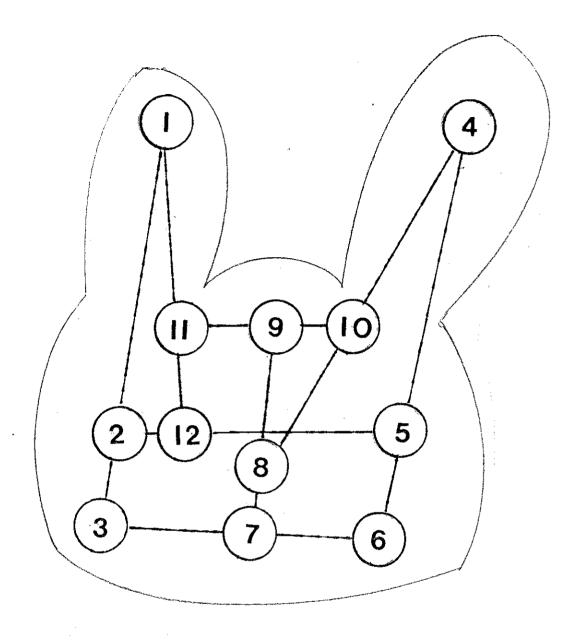


Puzzle 1. There are eight different letters in WHITE RABBIT and each is used exactly three times each to form these 12 words: AR (Argon), AW, BA (Barium), BE, BI (Bismuth), HE, HI, IT, TH (Thorium), TR (Teddy Roosevelt), WE, WR (White Rabbit).

The puzzle is to place these 12 words on the 12 nodes so that connected nodes have a common letter.

Puzzle 2. There are 12 different letters in the phrase DOWN THE RABBIT HOLE. Using these exactly two times each we form eight words: BAN, BIT, HEW, LED, LOT, RAH, ROD, WIN

Place the 12 different letters on the nodes so that each line of three letters anagrams into one of the eight words.



ANSWERS.

Puzzle 1. The 12 words can be placed in order 1 to 12 thusly: IT, HI, BI, WE, HE, BE, BA, AW, AR, WR, TR, TH Notice that each line of three contains a common letter.

Puzzle 2. The 12 letters can be placed in order 1 to 12 thusly: I, N, W, R, A, H, E, D, L, O, T, B

Both answers are word examples of mathematical geometric configurations.