You'll need a pen and a phone

On the following pages, 51 clues are provided leading to answers to be filled into the grid below. The first part of the clue reference describes a starting square on the grid, and the number within the arrow denotes the direction of the answer (either across or down) as well as the length of the answer. Unless directed otherwise, numerical answers should be expressed in binary, where a 1 digit represents a filled in square and a 0 digit represents a blank square. In cases where an answer is shorter than the space provided, the answer should be padded with leading 0 digits. Example: If the clue for A1 7 ΑΙ were "longest word in all of Shake-1 speare's works" (it isn't), you might 2 3 happen to know it is "honorificabilitudi-4 nitatibus," with 27 letters. In binary, 27 5 is expressed as "11011" but since the clue 6 requires 7 digits, you enter "0011011," 7 as pictured to the right.

Digits of some answers overlap, and some squares are not part of any answers and should remain white.



- C1 3 number of permanent members of the United Nations Security Council This isn't going to be so bad. You can do this!
- **F1** 9 interior angle, in degrees, of a regular polygon of **05** 6 sides
- **B2 13** PLU code for anagram of "A FLEECED TURTLE"
- **B3 4** number of member schools in the Big-12 athletic conference
- **F3 9** properly spaced Morse code for the character whose maritime signal flag most closely resembles a US State flag
- **C4** 6 first number (greater than 1) mentioned in the lyrics of an anti-war rock single released exactly **D7** 10 days prior to the release of a anti-war synthpop single with a numerical title identical to one of the answers to this puzzle
- **K4** number of outs on the river for the player with a King kicker in the Texas holdem hand below:





number of unretired jersey numbers that a New York Jets quarterback could possibly wear (update 2/21: significant confusion about this question. Here's the answer: 17)

L5 4

number of absences Ferris Bueller had before his records were altered

- **D6** 7 numerator frequently used in a heuristic to estimate the time it takes an investment to double in value
- L6 4 number of US states with no borders defined by rivers multiplied by number of congressional representatives from US states with no borders defined by longitudinal or latitudinal lines
- **D7** 9 Delta flight number providing nonstop service from the United States to Israel
- M7 4 atomic number of the most abundant element on earth by mass
- **C8** 9 number of milliliters in a "mickey"
- N83 number of musicians playing in the Mos Eisley cantina when Luke entered with Obi-Wan
- E9 3 number of US Presidents who died intestate
- **B10** world-record hottest air temperature recorded on earth, in °F
- G11 4
- number of moves required for white to checkmate (white to move)

- H12 3 number depicted by the unicode character encoded by the hexidecimal equivalent of the zip code containing the birthplace of the first inductee to the Rock and Roll Hall of Fame whose surname begins with the D11 5 th letter of the alphabet.
- H13 6 recurring number in "Weird Al" Yankovic songs and videos
- **B14** 4 ordinality associated with potential planet discovered in 2016
- **G14** 5 number featured prominently on painting in Room x of the Metropolitan Museum of Art, where x is the original area code in the location K1 8 miles east of the town referenced in C16 15
- L14 6 maximum number of potato pieces possible after making 4 straight planar slices through a whole potato without rearranging the slices
- **C15** m+1, where *m* is the most money that can be lost by a single player in a single turn of Monopoly (assume standard 2008 American edition)
- C16 15 ZIP code of town at the intersection of state routes numbered E9 6 and A15 4
- A17 6 number of distinct shapes comprising IBM logo
- **G17 11** year in which the p-th pope was elected, where p = C11 **2**
- **A18** 6 highest impossible score for a single team in an imaginary inflation-adjusted football game where safeties are awarded 10 points, field goals 12 points, and touchdowns 25 points (with no opportunities for extra points)
- **G18**¹¹ year in which first musical radio broadcast intended for aliens reached/will reach an exoplanetary system
 - A1 16

ZIP code at the easternmost intersection of interstate highway specified by **J13 6** and route specified by the answer to **D6 7** interpreted as a 7-bit ASCII value



hint: if you're viewing this on paper or in a browser, you probably don't see a video



- N86 points awarded to the declaring side of a bridge contract which takes 8 tricks after bidding 2 diamonds
- **01 5** number of electoral votes allocated to Florida during the 2000 presidential election
- 09 5
- numerical designation of longest highway in the United States in 1960
- P1 6
- numerically-named unincorporated community approximately **H3** ³ miles from Paradise, KY
- P9 5
- number of ways to order a pizza with two different toppings from a menu with seven topping choices



birth year (in BC) of Greek philosopher whose adherents include Thomas Jefferson



lowest number *s* such that $s = a^2 + b^2 = c^2 + d^2$ for a set of four unique integers a, b, c, d each greater than 1