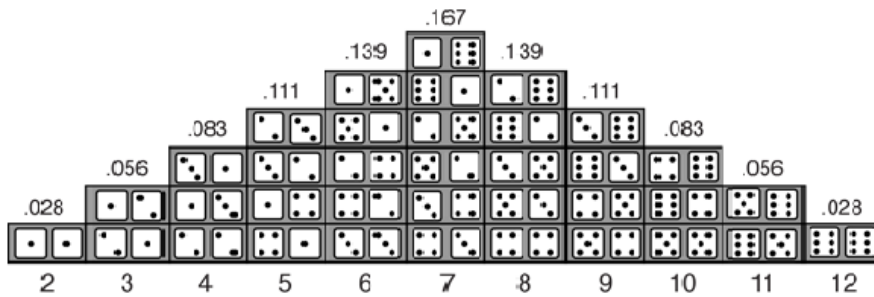


PROBABILITY is an important concept in physics. Here, two dice are thrown and their sum is calculated. The occurrences of each sum is displayed vertically. The expected odds are shown by possible sums:



The display uses a 16x16 array of WS2812b LED, and an ESP8266 CPU (a Wemos D1 Mini). A single pushbutton switch is used to roll the dice.

The display shows the roll as pips for the two dice (green). The total of the dice is shown as a number on the right (blue). The display plots how many times each total was rolled (red).

Once any total reaches 16 times (the top), the run stops. A second mode rolls the dice 1000 times for each press of the pushbutton. The sums are divided by 1000. This display looks closer to the expected distribution.

Push the button to advance and roll.
You can hold the button down to roll repeatedly.