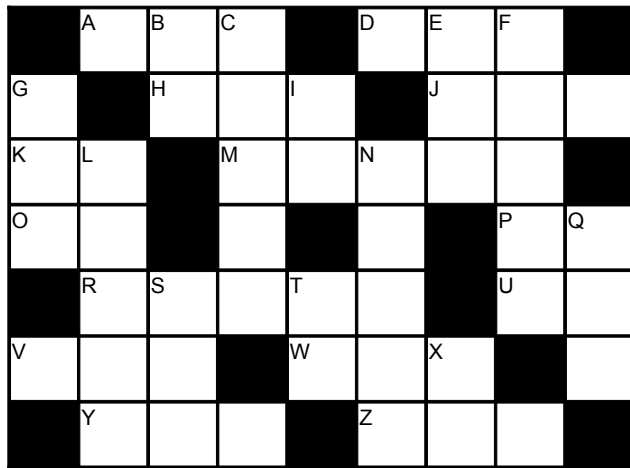


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Mathematical Maelström

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Crazy Cubes



Use the clues provided to solve the number puzzle. "Across" and "Down" are not specified as each letter only corresponds to one answer. No number begins with zero. A calculator could come in handy, as could the list of all positive cubes below 100,000.

A is a cube

B is a cube

C is a palindrome whose digits add up to a cube

D is half a cube

E is the sum of two different positive cubes
The sum of **F**'s digits is a cube

G is a quarter of a cube

The sum of **H**'s digits is a cube

The sum of **I**'s digits is a cube

J is the sum of two consecutive cubes

K is three times a cube

The sum of **L**'s digits is a cube

M is a cube

N is a palindrome, the cubes of whose digits add up to a cube

O is a cube

P is the difference between two positive cubes

The sum of the cubes of **Q**'s digits is a cube

The sum of the cubes of **R**'s digits is a cube

S is equal to the sum of the cubes of its digits

T is the difference between two positive cubes

U is the sum of two different positive cubes

V is equal to the sum of the cubes of its digits

W is the sum of two different positive cubes

X is the sum of two different positive cubes

Y is a cube

Z is the sum of two different positive cubes

List of all positive cubes below 100,000:

1 8 27 64 125 216 343 512 729 1000 1331 1728
2197 2744 3375 4096 4913 5832 6859 8000 9261
10648 12167 13824 24389 27000 29791 32768 35937
39304 42875 46656 50653 54872 59319 64000 68921
74088 79507 85184 91125 97336