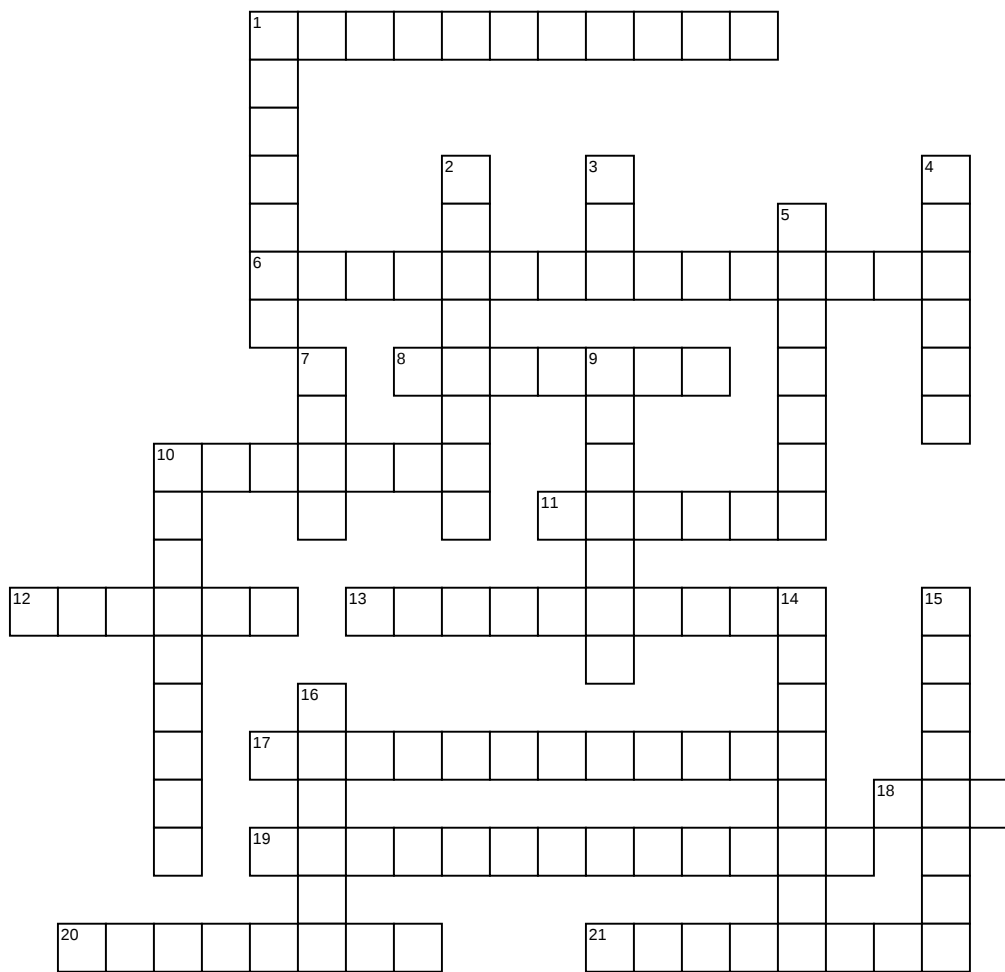


Patterns in Whole Numbers



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ACROSS

- 1 (2 words) A number having only 2 factors; 1 and itself
- 6 (2 words) A _____ has more than 2 factors.
- 8 The number by which another is divided. In the question 49 divided by 7, 7 is the _____.
- 10 is a multiple of 2, 4, and 8
- 11 (Verb) To factor means to write as a product; for example, $20=2 \times 2 \times 5$
- 12 _____ math is doing math in your head
- 13 (2 words) a number which, when multiplied by itself, results in a given number; for example 4 is the _____ of 16
- 17 (2 words) The product of a number multiplied by itself; for example 25 is the square of 5
- 18 What is the square root of thirty-six?
- 19 (2 words) The set of numbers 1, 2, 3, 4, 5,...
- 20 The number that is to be divided by another number. In the problem 27 divided by 3, 27 is the _____
- 21 There are an _____ number of prime numbers.

DOWN

- 1 If the digits of a number add up to exactly that number, that number is said to be _____.
- 2 The number obtained by division. In the problem $40 \div 8 = 5$, 5 is the _____
- 3 One is _____ a prime number
- 4 All multiples of a number are equal to or _____ than the number. (Another way of saying "greater than")
- 5 All factors of a number are equal to or _____ than the number. (Another way of saying "less than")
- 7 Mr. Grant likes _____
- 9 Dr. Arthur Benjamin, the math guy in the video, for his final act, _____ a five digit number in his head.
- 10 (2 words) what is the square of eight?
- 14 This number is the seventh prime number.
- 15 The product of a given number and a natural number. 60 is a _____ of 6.
- 16 81 is the _____ of 9