Learning Session 4: Prime Number Investigation

Prime numbers have fascinated mathematicians from many cultures for thousands of years. Nowadays they are important because the best commercial and military ciphers depend on their properties. In fact large prime numbers are used in the process that provides email security.

 Follow the instructions below which show how to use the <u>Sieve of Eratosthenes</u> to identify prime numbers to 100. Remember that a prime number can be divided only by itself and one and 2 is the smallest prime.

1	2	3	-4	5	6-	7	8	9	10
2.1	1.2	1.3	1.4	1.5	16	17	1.8	19	20
21	22	23	2.4	2.5	2.6	27	28	29	30
3.1	3.2	33	34	35	3.6	37	38	39	40
41	42	43	4	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	7.4	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	9/5	96	97	98	99	100

The sieve gives you a simple method for finding prime numbers.

- Cross 1 out.
- Then starting from 2, circle 2 but cross out every multiple of 2 from your sieve.
- Starting with 3, circle 3, but cross out every multiple of 3 from your sieve.
- Starting with 5, circle 5, but cross out every multiple of 5 from your sieve.

Starting with 7, circle 7 but cross out every multiple of it.

- Do the same with all the primes that you know already. The numbers that are crossed are not primes, because they are multiples of other numbers. The numbers that are circled are primes. They should have no divisors apart from themselves and 1.
- Make a list of your primes.
- Do you think the whole numbers greater than 5 can each be written as a sum of 3 primes?Write down your answer: yes or no.

Now try to write each number from 6 to 30 as a sum of 3 primes. Here are the first three:

- 6 = 2 + 2 + 2
- 7 = 2 + 2 + 3
- 8 = 2 + 3 + 3

Record your findings and anything you think might be of interest. Do you want to change your answer to the question?

Number Investigation

H Kauffman



Number Investigation Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Number Investigation**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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