

Name: _____ Date: _____

Sieve of Eratosthenes

Use the table below to follow these directions:

- 1) Circle the first number, 2.
- 2) Starting from there, count up by two's and cross off every number you get to. So, you'll cross off 4, then 6, then 8, and so on.
- 3) Once you've finished crossing off numbers, go back to the beginning and circle the next uncrossed number, 3.
- 4) From there, count up by three's and cross off every number you get to, even if it's been crossed off already.
- 5) Continue in a similar fashion until all the numbers are either circled or crossed off.

The circled numbers are prime numbers and the crossed off numbers are composite numbers.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	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	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

1. List all the prime numbers less than 120: _____

2. How many prime numbers are there that are less than 120? _____

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Factors! 1

Find all of the factors of the following numbers

	#	FACTORS
①	54	
②	89	
③	72	
④	102	
⑤	85	
⑥	27	
⑦	70	
⑧	57	
⑨	92	
⑩	81	
⑪	91	
⑫	76	
⑬	19	
⑭	42	
⑮	86	
⑯	115	
⑰	88	
⑱	59	
⑲	117	
⑳	80	