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PRIME NUMBERS WORKSHEET-I

1) Pick your favorite color and color all the prime numbers in the following chart:

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

2) State whether the following given numbers are prime or composite.



3) List all the factors of 23 and conclude whether it is prime or not.

4) State whether the following statement is True or False:

Prime numbers do not have any factors.

5) The number of factors of prime numbers are

_____.

- a) 2
- b) 3
- c) Depends on the prime number
- d) None of the above

6) Determine which of the following is prime.

- a) 6
- b) 7
- c) 1
- d) 9

7) Find the largest 2 digit prime number.

8) Using prime factorization of 121, check whether it is a prime number or not.

9) Is the following statement correct or incorrect.

"Every number greater than 2 can be expressed as a product of 2 prime numbers."

10) Natalie wants to distribute a bag of 17 sweets equally among her friends. Will she be able to do so? Give reason.



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in an interesting way,
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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

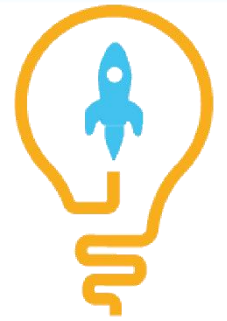
- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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ANSWERS

1)

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

2)

Composite; Prime; Prime

3)

Factors of 23 = 1, 23; 23 is Prime.

4)

False

5)

a) 2

6)

b) 7

7)

97

8)

121 is not prime.

9)

Correct

10)

No, because 17 is a prime number.

FUN FACT

1. The well-known astronomer and science author Carl Sagan wrote a book in 1985 called "Contact," dealing with extraterrestrials trying to communicate with humans using prime numbers as signals
2. In mathematics, the **sieve of Eratosthenes** is an ancient algorithm used for finding all [prime numbers](#) up to any given limit.
3. The largest prime number currently known is $282,589,933-1$, discovered in December 7, 2018 by a supercomputer volunteered by Patrick Laroche.

