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PRIME NUMBERS WORKSHEET-III

1) Match the following:

Number	Prime Factorization
1. 45	a. $2 \times 3 \times 5^2$
2. 150	b. $3 \times 7 \times 13$
3. 273	c. $3 \times 3 \times 5$

2) Fill in the blank:

The smallest prime number is _____.

3) Total number of prime factors of 144 is _____.

- a) 2
- b) 3
- c) 4
- d) 1

4) Circle all the prime numbers:

18 27 23 8 7
33 39 37 22 16
3 6 9 5 11
30 41 36 25 29
17 32 38 13 47
30 38 28 16 40
5 25 35 45 15
16 4 2 12 18

5) Determine which of the following is not prime.

- a) 211
- b) 179
- c) 103
- d) 107

6) Factor the number 1500 into the product of prime numbers.

7) State whether True or False:

Numbers that are co-primes will necessarily be prime too.

8) The width of a swimming pool (in feet) is the greatest 3 digit prime number, while its breadth is the smallest prime number. Find the area of the pool.



9) Choose the correct option:

What is the number '1'?

- a) Prime number
- b) Composite number
- c) Neither Prime nor Composite
- d) None of the above

10) Find out how many prime numbers are there between 1 to 20?

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- 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."

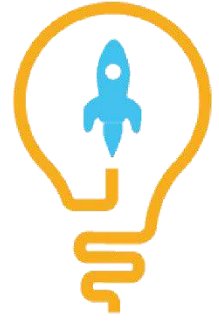
- Kirk Riley

"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."

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ANSWERS

1)	1--c; 2--a; 3--b				
2)	2				
3)	a)				
4)	18	27	23	8	7
	33	39	37	22	16
	3	6	9	5	11
	30	41	36	25	29
	17	32	38	13	47
	30	38	28	16	40
	5	25	35	45	15
	16	4	2	12	18
5)	d)				
6)	$1500 = 2 \times 2 \times 3 \times 5 \times 5 \times 5$				
7)	False				
8)	1994 ft^2				
9)	c)				
10)	8				

FUN FACT

1. The largest prime number currently known is $282,589,933-1$, discovered in December 7, 2018 by a supercomputer volunteered by Patrick Laroche.
2. In mathematics, the **sieve of Eratosthenes** is an ancient algorithm used for finding all [prime numbers](#) up to any given limit.
3. 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

