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PRIME NUMBERS WORKSHEET-II

1) Fill in the blanks:
Factors of 63 = _____.
63 is a _____ number.

2) State whether the following statement is True or False:
All prime numbers are odd.

3) Color all the prime numbers in the following chart:

		19	47	34	93	62	75
9	15	94	23	21	68	49	86
35	54	63	5	76	85	10	38
96	22	84	31	53	29	92	64
77	46	99	18	4	41	50	27
24	36	57	45	66	73	3	48
91	12	80	8	74	98	67	59
69	44	6	39	65	16	55	17
32	87	78	14	20	33	42	61
							83

4) Total number of factors of 121 is _____.
a) 2
b) 3
c) 4
d) 1

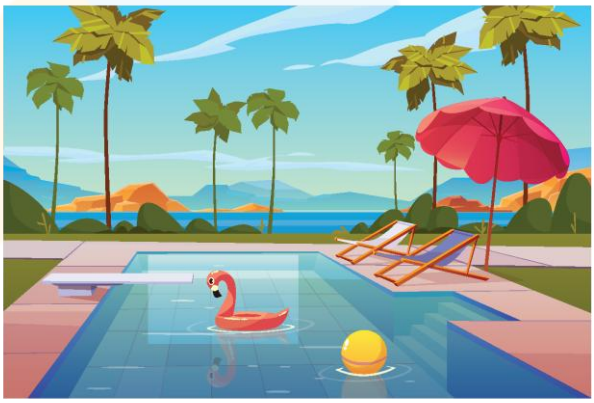
5) Solve the following riddle.
I am a number between 50 and 100. My ones digit is two less than my tens digit. I am a prime number. What number am I?

6) Determine which of the following is not prime.
   a) 23
   b) 73
   c) 91
   d) 97

7) Factor the number 6600 into the product of prime numbers.

8) Other than 2 and 3, can any other 2 consecutive numbers be prime? Give reason.

9) The width of a swimming pool (in feet) is a prime number greater than 10. The width and length of the pool are factors of 408. Find the dimensions of the pool?



10) Match the columns:

A	B
1. 37	a. Composite
2. 77	b. Prime
3. 43	c. Prime

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- Gary Schwartz

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- Kirk Riley

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- Barbara Cabrera

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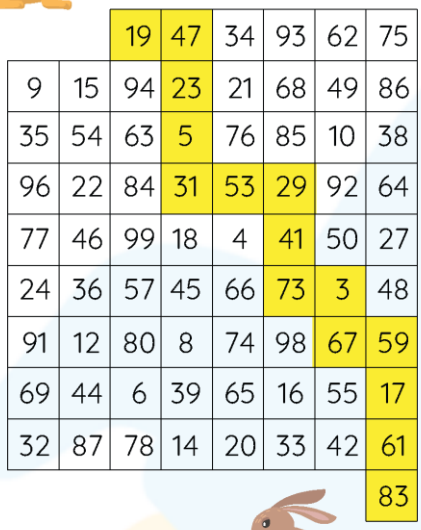
ANSWERS

1)	1, 3, 7, 9, 21, 63; Composite
2)	False
3)	  
4)	b)
5)	57
6)	c)
7)	$6600 = 2^3 \times 3^1 \times 5^2 \times 11^1$
8)	No, one of the numbers in the pair will have 2 as factor. Thus, cannot be prime.
9)	Width = 17 ft; Length = 24 ft
10)	1--b; 2--a; 3--c

FUN FACT

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