INDIAN SCHOOL AL WADI AL KABIR

Class VI, Mathematics ***Worksheet- Playing with numbers***

OBJECTIVE TYPE (1 Mark)								
Q.1.	Which of the following numbers is a perfect number?							
	A	16	**B**	8	**C**	24	**D**	28
Q.2.	Derin has 21 straw berries and 14 dragon fruit. What is the common factor Derin could use to divide the fruit into equal groups?							
	A	3	**B**	6	**C**	7	**D**	12
Q.3.	Which term below best describes the number 21?							
	A	Prime number	**B**	Multiple of 3	**C**	Even number	**D**	Factor of 3
Q.4.	Which of the following are not twin-primes?							
	A	3,5	**B**	5,7	**C**	11,13	**D**	17,23
Q.5.	Which of the following are co-primes?							
	A	9,10	**B**	8,10	**C**	6,8	**D**	15,18
Q.6.	The first five rooms are numbered 14,28,42,56 and 70. Which statement is true about the number pattern?							
	A	The room numbers are all odd	**B**	The room numbers are all multiples of 7	**C**	The room numbers are all prime numbers	**D**	The room numbers are factors of 7
Q.7.	What do the following numbers have in common? 15,27,35,49,63							
	A	Composite and odd	**B**	Prime and even	**C**	Composite and even	**D**	Prime and odd

Q.8. Complete the table to find all the factor pair of 50

FIRST FACTOR		SECOND FACTOR
----------	and	50
----------	and	25
5	and	--------

	A	10,2,5	**B**	10,5,1	**C**	1,2,10	**D**	1,2,5

Q.9. We know that, $5 \times 4 = 20$.
So, 5 is a factor of 20. Which of the following statement is also true?

	A	4 is a multiple of 20	**B**	20 is a multiple of 4	**C**	5 is a multiple of 20	**D**	20 is a factor of 5

Q.10. Deepti tried to shade all the multiples of 8 on the hundred numbered charts.

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

What mistake did Deepti make?

	A	Deepti shaded the multiples of 4 instead of the multiples of 8	**B**	Deepti did not make a mistake	**C**	Deepti shaded 8, but multiples are always greater than the number	**D**	Deepti shaded the factors instead of the multiples of 8

Fill in the blanks(1mark)

Q.11. The sixth multiple of 13 is_____

Q.12. The factor of a prime number is ____ and ____.

Q.13. The difference between two twin primes is _____.

Q.14. The smallest odd composite number is_____.

Q.15. Every number is a multiple of _____.

	SECTION B (2 marks)
Q.16.	Express 42 as the sum of two odd prime. (Any two)
Q.17.	Write all the factors of: (i)27 (ii)85
Q.18.	Write all the prime numbers lying between 30 and 60.
Q.19.	Write first common multiples of 15 and 12.
Q.20.	Write the smallest number having three different prime factors.
	SECTION C (4 marks)
Q.21.	Find all the common factors of: (i)25 and 40 (ii) 20 and 64
Q.22.	Out of the given numbers identify the numbers having 9 as one of their factors: 1350, 171,750,540.
Q.23.	Find the first three common multiples of: (i)2,3,4 (ii)5 and 11
Q.24.	Find all the numbers less than 100 which are multiples of 4 and 5.
Q.25.	Express the following numbers as the sum of two odd primes. (i)84 (ii)24 (iii)54

Answers							
	1	D	**2**	C	**3.**	B	**4**	D
	5	A	**6**	B	**7**	A	**8**	C
	9	B	**10**	B	**11**	78	**12**	1 and the number itself
	13	2	**14**	9	**15**	itself	**16**	37+5,31+11
	17	(i)1,3,9,27 (ii)1,5,17,85	**18**	31,37,41,43,47, 53,59	**19**	60	**20**	30
	21	(i)1,5 (ii)1,2,4	**22**	1350,171,540	**23**	(i)12,24,36 (ii)55,110,165	**24**	20,40,60,80
	25	(i)47+37 (ii)17+7 (iii)37+17						