INDIAN SCHOOL AL WADI AL KABIR
Class VI, Mathematics **(2026-27)**
PRIME TIME
MCQ WORKSHEET

Multiple Choice Questions

Q.1	Which number is a common multiple of 3, 5 and 6?						
	A	15	**B**	18	**C**	25	**D**	30
Q.2	Which number is co-prime with 10?						
	A	15	**B**	20	**C**	21	**D**	25
Q.3	Which of the following numbers is divisible by 9?						
	A	1532	**B**	4238	**C**	3457	**D**	2187
Q.4	Which number is a common factor of 18 and 24?						
	A	5	**B**	6	**C**	7	**D**	9
Q.5	How many prime numbers are there between 50 and 70						
	A	3	**B**	4	**C**	5	**D**	6
Q.6	Which of the following statements is true about co-prime numbers?						
	A	They must both be prime numbers.	**B**	They have no common factors other than 1.	**C**	Their HCF is their product	**D**	They must both be odd numbers.
Q.7	The fifth multiple of 19 is:						
	A	114	**B**	76	**C**	59	**D**	95
Q.8	Which pair of numbers is co-prime?						
	A	12 and 18	**B**	14 and 21	**C**	8 and 9	**D**	10 and 20
Q.9	The smallest number that is a multiple of both 8 and 12 is:						
	A	16	**B**	24	**C**	32	**D**	48
Q.10	Based on the definition of a perfect number, which of these is a perfect number between 1 and 10?						
	A	4	**B**	9	**C**	6	**D**	8
Q.11	Which of the following represents the prime factorization of 60?”						
	A	2 × 3 × 10	**B**	4 × 3 × 5	**C**	2 × 3 × 3 × 5	**D**	2 × 2 × 3 × 5

Q.12	Using the divisibility rules, which of the following numbers is divisible by 6?							
	A	1234	**B**	3115	**C**	4003	**D**	2532
Q.13	The factors of 15 are:							
	A	1, 2, 5, 15	**B**	1, 3, 5, 15	**C**	3, 5, 10, 15	**D**	1, 5, 15, 20
Q.14	If 7 × 8 = 56, which statement is correct?							
	A	7 is a multiple of 56	**B**	56 is a factor of 7	**C**	7 is a factor of 56	**D**	8 is not a factor of 56

Q.15 **Case Study:** The students of class VI have been invited to a special version of Squid game. In the game participant must go through different levels. The one who completes all 4 levels wins the game. Based on the given information answer the following questions:

Level 1:

You walk into a tunnel with 10 glowing stones, each with a number. The task is that you have to step only on the prime numbers.

Numbers on stones are: 11, 15, 23, 28, 31, 33, 37, 40, 43, 50**.**

Which of the following stones will you step on?

Level 2:

You reach a bridge made of 12 tiles. Each tile has a number. The task is that you have to step only on tiles with composite numbers to cross safely. Numbers on tiles are: 4, 7, 9, 13, 15, 21, 23, 25, 29, 33, 35,39. Which of the following tiles will you step on?

Level 3:

You enter a room with 8 locked doors, each marked with a number. The task is to choose doors whose numbers are factors of 48 to unlock them. Door numbers are: 2, 5, 6, 11, 16, 20, 18, 48. Which of the following door numbers will you choose?

Level 4:

You enter a mysterious maze with 10 numbered gates.

To find the correct path, you must pass only through gates whose numbers are multiples of 6. The gate numbers are:

6, 8, 12, 15, 18, 20, 24, 27, 30, 35. Which gates will you pass through?

****

ANSWERS

1.	D. 30	**2.**	C. 21	**3.**	D. 2187	**4.**	B. 6
5.	B. 4	**6.**	B. They have no common factors other than 1.	**7.**	D. 95	**8.**	C. 8 and 9
9.	B. 24	**10.**	C. 6	**11.**	D. 2 × 2 × 3 × 5	**12.**	D. 2532
13.	B. 1, 3, 5, 15	**14.**	C. 7 is a factor of 56	**15.**	Level 1 – Prime Numbers: Step on: 11, 23, 31, 37, 43 Level 2 – Composite Numbers: Step on: 4, 9, 15, 21, 25, 33, 35, 39 Level 3 – Factors of 48: Choose: 2, 6, 16, 48 Level 4 – Multiples of 6: Pass through: 6, 12, 18, 24, 30		