



INDIAN SCHOOL NIZWA-WORKSHEET

	MATHEMATICS	
	CH – 5 - PRIME TIME	
Name: _____	Date: _____	Class: VI Sec: ___

I. MULTIPLE CHOICE QUESTIONS:

- A number for which the sum of all its factors is equal to twice the number is called as:
a) Prime number b) Composite number c) Perfect number d) Co-prime number
- Three numbers that are multiples of 15 but not multiples of 30 are:
a) 30, 45, 65 b) 45, 75, 105 c) 45, 75, 90 d) 60, 70, 90
- I am a number less than 100, one of my factors is 3. The sum of my digits is 12. Who am I?
a) 63 b) 129 c) 39 d) 65
- The common factor of 17, 21 and 29 is:
a) 17 b) 29 c) 7 d) 1
- Which pair of numbers is co-prime?
a) 35 and 53 b) 12 and 21 c) 100 and 105 d) 42 and 63
- Which number is divisible by 8?
a) 1081 b) 1800 c) 1801 d) 1108
- A number which is divisible by 2, 4, 5, 8 and 10 is:
a) 35622 b) 28080 c) 2848 d) 28150
- If the number $42956*8$ is divisible by 4, then digit at * is:
a) 1 b) 4 c) 3 d) 5
- Which of the following expression has prime factors?
a) $24 = 2 \times 3 \times 4$ b) $56 = 7 \times 2 \times 4$ c) $70 = 2 \times 5 \times 7$ d) $54 = 2 \times 3 \times 9$
- The sum of the prime factors of 1729 is:
a) 37 b) 38 c) 41 d) 39
- The largest 4-digit number divisible by 4 is:
a) 9994 b) 9992 c) 9998 d) 9996
- Which number is neither prime nor composite?
a) 0 b) 1 c) 2 d) 3
- Assertion (A) 525 is not divisible by 5.
Reason (R) A number which has either 0 or 5 in its unit's place is divisible by 5.
(a) Both A and R are true and R is the correct explanation of A.
(b) Both A and R are true but R is not the correct explanation of A.
(c) A is true but R is false.
(d) A is false but R is true.

II. Very Short Answer Questions:

- 14. Write the prime factorisation of 16 and 38.
- 15. Express each of the following numbers as the sum of two primes
 - a) 36 b) 84
- 16. Find the prime factorisation of 4641.
- 17. Is 10 a perfect number?

III. Short Answer Questions:

- 18. Find the common factors of 56 and 12.
- 19. Write first three common multiples of 3, 9 and 12.
- 20. Write four pairs of prime numbers less than 20 whose sum is divisible by 5.
- 21. Write seven consecutive composite numbers less than 100, so that there is no prime number between them.
- 22. Express each of the following numbers as the sum of three odd primes
 - a) 25 b) 37 c) 41

IV. Very Long Answer Questions:

- 23. What are co- primes? Give examples of five pairs of co-prime numbers. Are co- primes always prime? If No, illustrate your answer by an example.
- 24. A list consists of the following pairs of numbers:
(51, 53); (55, 57); (59, 61); (63, 65); (67, 69); (71, 73)
Categorise them as pairs of a) Co-primes b) Primes c) Composites

25. CASE BASED QUESTION:

Copy the table and fill the grid with prime numbers only so that the product of each row is the number to the right of the row and the product of each column is the number below the column and answer the following questions:

- a) List all prime numbers used to fill the adjoining grid in the ascending order.
- b) Write two pairs of twin prime numbers.
- c) Find the smallest even prime number used in the grid.

			646
			715
			483
598	595	627	