BCM SCHOOL, BASANT AVENUE, DUGRI, LUDHIANA
JULY ASSIGNEMENT
CLASS- VI (MATHEMATICS)
TOPIC: PRIME TIME

SECTION –A (MULTIPLE CHOICE QUESTIONS)

1. Which of these pairs are co-prime?

   (a) 12 and 24
   (b) 15 and 39
   (c) 17 and 69
   (d) 20 and 39

2. Which of these numbers is the product of exactly three distinct prime numbers?

   (a) 105
   (b) 45
   (c) 60
   (d) 330

3. Assertion (A): The numbers that are divisible by 4 are also divisible by 2.
   Reason(R): 2 is a factor of 4 so the numbers that are divisible by 4 will also have 2 as their factor.

   (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.

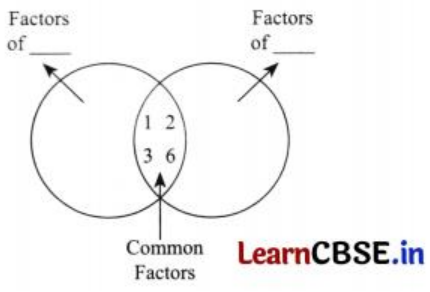
SECTION – B(2 MARKS QUESTIONS)

4. Find the common factors of:
   (a) 56 and 120

5. Goofy and Mickey are playing the treasure hunting game. Mickey has kept treasures on numbers 32 and 80 on a line. What sizes of jumps will Goofy take to land on both numbers?

SECTION – C (3 MARKS QUESTIONS)

6. In the diagram below, Tukku has erased all the numbers except the common factors. Find out what those numbers could be and fill in the missing numbers in the empty regions.



7. Find the least number that is divisible by all the numbers from 3 to 10 (both inclusive)

SECTION – D (5 MARKS QUESTIONS)

8. Find the product of the common prime factors of the following:
   (a) 648 and 1440

9.	What could be only two numbers, so that if 28720 is divisible by those two numbers, then we could say it will be divisible by all of 2, 4, 5, 8 and 10?
SECTION – E (CASE STUDY)	
10.	In a school library, there are 780 books of English and 364 books of Science. Ms. Sharma, the librarian of the school, wants to store these books on shelves such that each shelf should have the same number of books of each subject. (a) How would she be able to know about the arrangement? (b) What should be the maximum number of books on each shelf? (c) Are the number of English and Science books form a pair of Co-prime numbers? Justify your answer.