

Worksheet: 3

with numbers

Chapter 3: Playing Subject: Mathematics

Class: VI

A. Choose the corre	ect option.
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- 1) Which of the following numbers has 9 as a factor?
 - a) 90808
- b)88488
- c)903099
- d)654321
- 2) Which of the following numbers does not have 8 as a factor?
 - a) 52424
- b)99000
- c)600008
- d)63250
- 3) The LCM of two coprime numbers is their .
 - a) sum
- b)difference
- c)product
- d)quotient
- 4) How many composite numbers are between a pair of twin primes?
 - a) 1
- b)2

- c)0
- d)3
- 5) The HCF of two consecutive even numbers is .
 - a) 1
- b)2

- c)0
- d)3

B. State true or false.

- 1) Sum of any two even numbers is even.
- 2) Sum of any two odd numbers is even.
- 3) Product of three odd numbers is odd.
- 4) Prime numbers do not have any factors.
- 5) All even numbers are composite numbers.
- 6) Sum of two prime numbers is always even.
- 7) Product of two even numbers is always even.
- 8) Product of two primes cannot be a prime.

c. Match the numbers with their prime factorisation.

- 1)180
- (i)
- $2 \times 2 \times 3 \times 5 \times 5$

- 2)270
- (ii)
- $2 \times 2 \times 3 \times 3 \times 5$

- 3)120
- (iii)
- $2 \times 3 \times 3 \times 5 \times 5$

- 4)300 5)450
- (iv)
- 2 ×2 ×2 ×3 ×5

- 6)750
- (v) (vi)
- 2 ×3 ×5 ×5 ×5 2 ×3 ×3 ×3 ×5

D. Answer the questions

- 1. Find the largest 5-digit number that is exactly divisible by 18 and 48.
- 2. Find the largest number that divides 848 and 1018 and leaves remainders 8 and 10 respectively.
- 3. Find (a) 5 consecutive numbers less than 50 such that there is no prime number between them?
- (b) 7 consecutive numbers between 50 and 100 such that there is no prime number between them?
- 4. Find the HCF of 28,126 and 133 by the long division method.

5. At an amusement park, three rides start simultaneously:a Ferris wheel rotates every 20 minutes, a roller coaster departs every 15 minutes, and a carousel begins every 25 minutes. If they all commence operations together at 11:15 a.m., determine the time when they will all start again simultaneously.