

1. Every even number greater than 4 can be expressed as a sum of two odd Prime numbers. Which of the following is an example of this statement?

- (A) $8=1+7$ (B) $8=3+5$ (C) $4=1+3$ (D) $4=2+2$

2. What is the least value that should be given to * so that the number $653*47$ is divisible by 11?

- (A) 9 (B) 6 (C) 2 (D) 1

3. The L.C.M. of 64 and 48 is 192. What is the H.C.F. of these numbers?

- (A) 16 (B) 24 (C) 8 (D) 12

4. What is the prime factorization of 143?

- (A) $2 \times 11 \times 13$ (B) 11×13 (C) $2 \times 3 \times 7$ (D) $1 \times 2 \times 3 \times 7$

5. The L.C.M of two numbers is 3718. Which of the following numbers CANNOT possibly be the H.C.F. of these numbers?

- (A) 13 (B) 26 (C) 104 (D) 143

6. The answers of four students A, B, C, and D for prime factorization of 24 are given. Whose answer is wrong?

- (A) $2 \times 2 \times 2 \times 3$ (B) 8×3 (C) $3 \times 2 \times 2 \times 2$ (D) $2 \times 3 \times 2 \times 2$

7. Find a number which is a multiple of all the numbers from 1 to 10?

- (A) 5040 (B) 1260 (C) 720 (D) 1440



8. The table given lists the number of factors for some numbers.

Number	Number of factor
21	4
23	2
25	3
27	4
29	2

What is the number of prime numbers between 20 and 30 from the given table?

- (A) 0 (B) 2 (C) 3 (D) 4

9. Observe the following sums.

1	= 1 × 1 = 1
1 + 3	= 2 × 2 = 4
1 + 3 + 5	= 3 × 3 = 9
1 + 3 + 5 + 7	= 4 × 4 = 16
1 + 3 + 5 + 7 + 9	= 5 × 5 = 25

What is the result of the sum $1+3+5+7+9+\dots+15$?

- (A) 121 (B) 81 (C) 100 (D) 64

10. How many factors does 48 have?

- (A) 2 (B) 4 (C) 8 (D) 10





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