MODERN SCHOOL

CLASS – 5TH , SUBJECT – MATHEMATICS (2024-25)

ASSIGNMENT - CH -5 FACTORS AND MULTIPLES

Q.1 MULTIPLE CHOICE QUESTIONS-

I. Which is the only number having on factor?

a) 0 b) 1 c) 2 d) 3

2. The LCM of 30 and 40 is

a) 120 b) 150 c) 180 d) 200

3. The smallest even prime number is

a) 2 b) 0 c) 4 d) 5

4. HCF of two consecutive number is

a) 0 b) 1 c) 2 d) none of these

5. The prime number has ___ factors.

a) 0 b) 1 c) 2 d) 4

6. The HCF of 48 , 32 and 96 is

a) 18 b) 16 c) 36 d) 38

7. Which of the following number is divisible by 3?

a) 9630 b) 7390 c) 8570 d) 4510

8. Highest common factor of 16 and 20 is

a) 2 b) 4 c) 6 d) 10

9. HCF of two co-prime number is

a) 0 b) 1 c) 2 d) none of these

10. Which of the following is a multiple of 12

a) 46 b) 74 c) 96 d) 106

Q.2 Find the prime factorisation of following numbers by short division method-

i) 68 ii) 84

Q.3 Write the following –

i) multiples of 8 less than 48 ii) multiples of 15 that are less than 200

Q.4 Fill in the blanks-

i) 1924 is divisible by 2 and _____

ii) A number which is divisible by 3 is also divisible by _____

iii) The greatest 2- digit prime number is_____.

iv) The smallest composite number is _____.

Q.5 Find the prime factorisation of the following numbers by FACTOR TREE METHOD--

i) 248 ii) 175

Q.6 Find the HCF of the following numbers by PRIME FACTORISATION METHOD-

i) 48,72,96 ii) 116,132,156

Q.7 Find the HCF of the following numbers by LONG DIVISION METHOD ----

i) 36,72,108 ii) 144 and 252

Q.8 Find LCM of the following numbers by COMMON DIVISION METHOD –

i) 68 ii) 84

Q.9 CASE BASED QUESTION-

Vidya passed her class –v in 2023-24. Her marks in four different subject Maths ,science

English , and Hindi were 85,93,78,and 74 respectively.

i) The sum of her marks in all the four subjects is divisible by which number?
ii) Find the prime factorisation of sum of her marks?
iii) Find HCF of the sum of her marks and 432?

Q.10 ASSERTION AND REASONING-

- (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) If A is true but R is false
- (d) If A is false but R is true

1. Assertion (A) – The number 49132 is divisible by 4
   Reason (R) - A number is divisible by 4 if the number formed by last two digit is divisible by 4
2. Assertion(A) – 3 and 7 are both prime numbers and are also co-prime.
   Reason (R)- Two prime numbers are always co-primes.