Worksheet (3) |

Lower Secondary
Stage (6-8)

1ˢᵗ Semester | 2023-2024

Subject: Math
Name: ____Answer key ____
Objectives:
• **LCM, HCF, the test of divisibility.**

Chapter: 1 (numbers and calculations)
Grade 6 CS

Multiples and factors.

- Multiples: The multiples of a number are all the numbers from its timetable.

- Factors: The factors of a number are all the whole numbers that divide into it.

- Prime number: is the number that has only **two factors**; **1** and the **number itself**.

- Composite number: a number that has **more than two factors.**

Exercise (1): Write the first five multiples of:

a) 6: **6, 12, 18, 24, 30**
b) 8: **8, 16, 24, 32, 40**
c) 12: **12, 24, 36, 48, 60**

Exercise (2): Write all the factors of:

a) 20: **1, 2, 4, 5, 10, 20**
b) 48: **1, 2, 3, 4, 6, 8, 12, 16, 24, 48**
c) 64: **1, 2, 4, 8, 16, 32, 64**
d) 100: **1, 2, 4, 5, 10, 20, 25, 50, 100**

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Exercise (3): Check (√) the prime number from the composite number.

	Prime number	**Composite number**
81		√
213		√
630		√
12521		**√ (divisible by 19)**

Exercise (4):

a) Find the HCF of:

30: **1, 2, 3, 5, 6, 10, 15, 30**

48: **1, 2, 3, 4, 6, 8, 12, 16, 24 and 48**.

HCF: 6

b) Find the LCM of:

5: **5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60**

12: **12, 24, 36, 48, 60, 72, 84**

20: **20, 40, 60, 80, 100, 120**

LCM: 60

Exercise (5): Check the divisibility for the numbers below.

	Divisible by 2	**Divisible by 3**	**Divisible by 5**	**Divisible by 6**	**Divisible by 9**
918120	✓	✓	✓	✓	
31245		✓	✓		
133137		✓			✓