

# UCIWAI SANGAM SCHOOL

Ministry of Education Registration No. 1078

LEARNING WORKSHEETS WEEK 1

NAME: \_\_\_\_\_

**SUBJECT : MATHEMATICS**

**YEAR / LEVEL: 7**

**STRAND : 1. Number & Numeration**

**SUB STRAND : 1.1 Whole Numbers & Operations**

**TOPIC : Factors**

**C.L.O** : At the end of this lesson, students will be able to list factors, prime , composite, square & triangular numbers and their properties.

Notes: A. FACTORS

- Numbers we multiply together to get another number
- **Example: 2 and 3 are factors of 6**

$$2 \times 3 = 6$$

- Properties of factors – a number can have many factors
- When you multiply two negative numbers your answer will be a positive number
- Factors can also be written as  $(x + 3)(x + 4)$

B. PRIME NUMBERS

- Is a natural number that has **only two factors**
- The factors will always be : **1 and the number itself**
- **Example :  $1 \times 2 = 2$     $1 \times 3 = 3$     ~~$1 \times 4 = 4$~~     $1 \times 5 = 5$**

C. COMPOSITE NUMBERS

- Is a natural number that has **more than two factors**
- **Example : 15 (1 , 3 , 5 , 15)**

$$1 \times 15$$

$$3 \times 5$$

D. SQUARE NUMBERS

- The product of a number multiplied by itself
- **Example :  $1 \times 1$     $2 \times 2$     $3 \times 3$     $4 \times 4$     $5 \times 5$**
- **Square Numbers = (1 , 4 , 9 , 16 , 25)**

E. TRIANGULAR NUMBERS

- Is a number that can make a triangular dot pattern
- We can also use **this formula** to find the triangular numbers

Formula →  $n \times (n + 1) / 2$

- Substitute these numbers in the place of **n** = 1, 2, 3, 4, 5

$$\begin{aligned} &1 \times (1 + 1) \\ &= 1 \times 2 \\ &= 2 / 2 \\ &= 1 \end{aligned}$$

$$\begin{aligned} &2 \times (2 + 1) \\ &= 2 \times 3 \\ &= 6 / 2 \\ &= 3 \end{aligned}$$

**Triangular numbers = ( 1, 3, .....)**

**Activities: Work out all the questions**

1. List the prime numbers less than 10.
2. List the square numbers less than 20.
3. List the triangular numbers less than 15.
4. List the rectangular numbers less than 30.

5. List the first four counting numbers.
  
6. List the first four whole numbers.
  
7. Round off 345 to the nearest tens.
  
8. Round off 2946 to the nearest hundreds.
  
9. Round off 75849 to the nearest ten thousands.
  
10. Round off 4.573 to the nearest hundredths.
  
11. Round off 905.261 to the nearest tenths.
  
12. Write 729465 in words. Ans:
  
13. Partition this number: 3546571 Ans:

*The End . STAY SAFE AND GOD BLESS*

*Anthony D'Angelo ~ Develop a passion for learning, if you do, you will never cease to grow ~*