2034 NANUKU SANGAM SCHOOL LESSON NOTES WORKSHEET 3 -2021

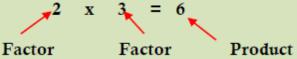
Subject: Mathematics Year: 7 Name: ____

LESSON NOTES:

FACTORS

What is a "Factor"?

Factors are numbers you multiply together to get another number:



In the problem $2 \times 3 = 6$, 2 and 3 are <u>factors</u> and 12 is the product. Factors are either <u>composite numbers</u> or <u>prime numbers</u> (except that 0 and 1 are neither prime nor composite). There can be many factors of a number.

Example: All the factors of 12 are $2 \times 6 = 12$, but also $3 \times 4 = 12$, and of course $1 \times 12 = 12$.

So 1, 2, 3, 4, 6 and 12 are factors of 12

Highest Common Factor [H.C.F.]

The highest number that divides exactly into two or more numbers.

For example: Find the highest common factor of 12 and 16

- 1. Find the factors of both numbers
- Circle the common factors
- 3. Choose the Highest Common Factor for
- 12 and 16

Factors of 12: 1, 2, 3, 4, 6, 12

Factors of 16: 1, 2, 4, 8, 16

Common Factors

QUESTIONS

- 1. Find the HCF of 6 and 8
 - a. $F\{6\} = \{1, 2, 3, 6\}$
 - b. $F\{8\} = \{1, 2, 4, 8\}$
 - c. $F\{6\} \cap F\{8\} = \{1, 2\}$
 - d. H.C.F of 6 and 8 = 2
- 2. Find the HCF of 15 and 20

F{15} = {1, 3, 5, 15}
F{20} = {1, 2, 4, 5, 10, 20}
F{15}
$$\cap$$
F{20} = {1, 2, 5}
H.C.F of 15 and 20 = 5