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Unit : - Factors and Multiples (First week)

Number of Periods : - 09

• Clearly understand the pages 140 and 141 in the text book. Observe the 6 chairs arranged in columns and rows.

According to that, know that 6 can be written as the product of two numbers as shown below.

 $6 = 1 \times 6$ $6 = 2 \times 3$ $6 = 3 \times 2$ $6 = 6 \times 1$

• Observe the page number 141. 12 can be written as the product of two numbers as shown below when the 12 chairs shown there are arranged as above.

 $12 = 1 \times 12$ $12 = 2 \times 6$ $12 = 3 \times 4$ $12 = 4 \times 3$ $12 = 6 \times 2$ $12 = 12 \times 1$

• Like this, write the numbers below in ways those can be written as the product of two numbers.

 1) 18
 2) 24
 3) 30
 4) 40

When a whole number is written as a product of two whole numbers, those two numbers are known as factors of the original number. While writing the factors of 16, only the numbers below 16 are sufficient.

All products	Sufficient products	
$16 = 1 \times 16$	$16 = 1 \times 16$	
$16 = 2 \times 8$	$16 = 2 \times 8$	
$16 = 4 \times 4$	$16 = 4 \times 4$	
$16 = 8 \times 2$		
$16 = 16 \times 1$		
So, the factors of 16 are 1, 2, 4, 8, 16		

• The factors of 20 are

 $20 = 1 \times 20$ $20 = 2 \times 10$ $20 = 4 \times 5$

So, the factors of 20 are 1, 2, 4, 5, 10, 20

0 is not considered as a factor of a whole number.

Complete the exercise 11.1 in the page number 142 of the text book. Obtain the help from the mathematics teacher to clear the doubts.

- Thoroughly understand the page number 143. Thoroughly understand the multiplication table given.
- Find the factors of a number by writing it as the product of two numbers.

Find the factors of the following numbers using the multiplication table.

1) 14 2) 20 3) 30 4) 32

Complete the exercise 11.2 in the page number 144 of the text book. Try to solve the doubts you get.

Finding factors using division

Clearly read page numbers 144 and 145. Observe the instances where a number is being divided by another number without a remainder.

