

FACTORS

Ali has to arrange 8 stones in different ways. Following are the ways he can arrange 8 stones.

• In ones	00000000	8 × 1 = 8
• In twos	00 00 00 00	4 × 2 = 8
• In fours	0000 0000	2 × 4 = 8
• In Eights	00000000	1 × 8 = 8

He has arranged the stones in ones, twos, fours and eights with no left over stones in each case.

This shows that 1, 2, 4 and 8 are the factors of 8.

Remember some important facts about factors of a number!

- 1 is a factor of every number
- When a number id divided by its factor, there is no remainder.
- Each number is a factor of itself.

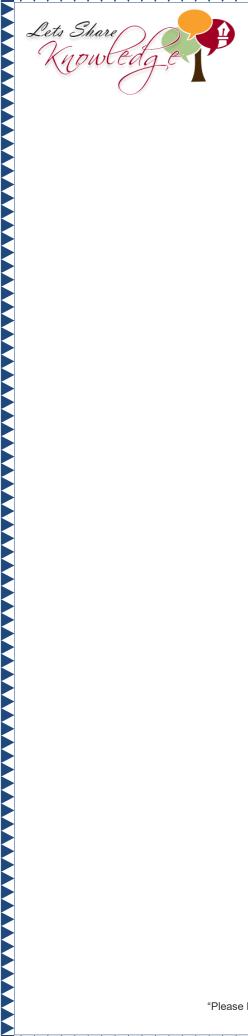
Highest Common Factor (HCF):

Look at the factors of 4 and 8.

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

Here we see that some numbers are factors of both 4 and 8 like 1, 2 and 4. These are the *common factors* of 4 & 8.

And **4** is the Highest Common Factor.



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