

Unit : Number  
Lesson : Factors Tree

Date : 17/1/2013

\* **Objective** : Express numbers as product of prime factors using factors tree.

10 mins \* **Starter** : - Review with students <sup>prime numbers</sup> definition of a factor.  
- Display examples and ask students to identify the factors.

\* **Body** : - Illustrate to students how to express number as product of prime factors using factors tree.

\* **Factor tree steps** : exe : 12

↳ Think of two numbers can be multiplied to get 12 ex (3,4)

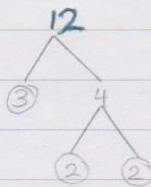
↳ Examine the factors you found 3 & 4 :

Ⓐ If it is prime, circle it.

Ⓑ If it is composite, think of 2 factors.

15 mins

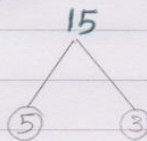
Example 1



$$12 = 2 \times 2 \times 3$$

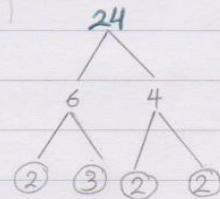
$$12 = 2^2 \times 3$$

Example 2



$$15 = 3 \times 5$$

Example 3



$$24 = 2 \times 2 \times 2 \times 3$$

$$24 = 2^3 \times 3$$

10 mins

- Have student to complete worksheet

- Discuss answer on board.

10 mins \* **Plenary** : - Review objective orally.

- In pairs, students will write a 2 digit number less than 50 on post it note and crumple it up then throw it. Instruct students to pick one note for each pair and express the number using factors tree.

\* **Assessment** : - Observe students participation

- Monitor students work (worksheet, snowball flight activity)

\* **Homework** : Use factor trees to write these number as products of