Name: ..... Class: .....

Prime factorization

a. What is the prime factorization of 8?

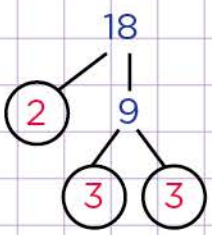
2 x 4 | 1 x 2 x 4 | 2 x 2 x 2

b. What is the prime factorization of 72?

2 x 2 x 2 x 3 x 3 | 2 x 2 x 3 x 6 | 2 x 6 x 6

c. Use a number tree to find the prime factors then write the prime factorization expression of each number?

Example of 18 :



18 = 2 x 3 x 3

32

96

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Solution

Name: ..... Class: .....

Prime factorization

What is the prime factorization of 8?

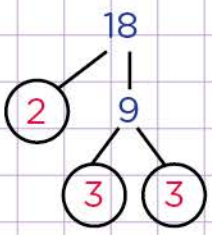
2 x 4 | 1 x 2 x 4 | **2 x 2 x 2**

What is the prime factorization of 72?

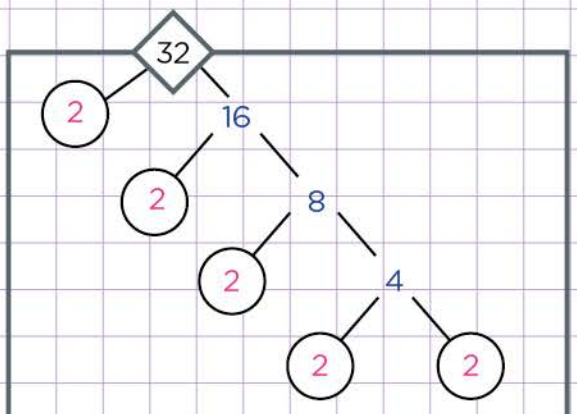
2 x 2 x 2 x 3 x 3 | 2 x 2 x 3 x 6 | 2 x 6 x 6

Use a number tree to find the prime factors then write the prime factorization expression of each number?

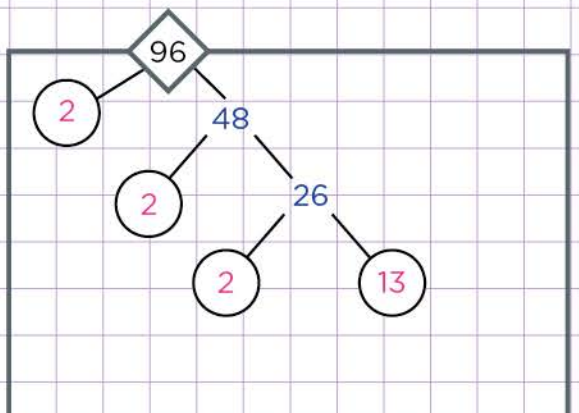
Example of 18 :



18 = 2 x 3 x 3



32 = 2 x 2 x 2 x 2 x 2



96 = 2 x 2 x 2 x 13

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