

How to find prime factors  
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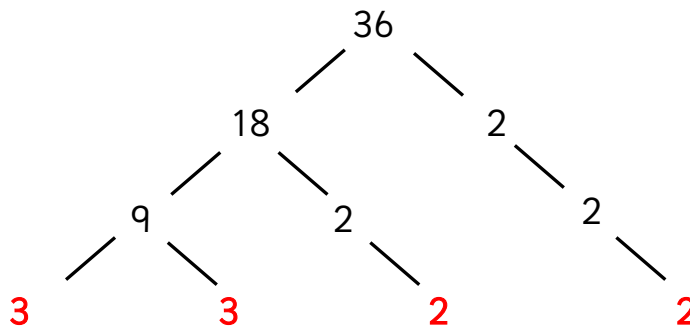
You need to know about factors, prime numbers and divisibility before starting this!

The prime factors of a number are the factors which are also prime numbers.

How to find the prime factors of 36

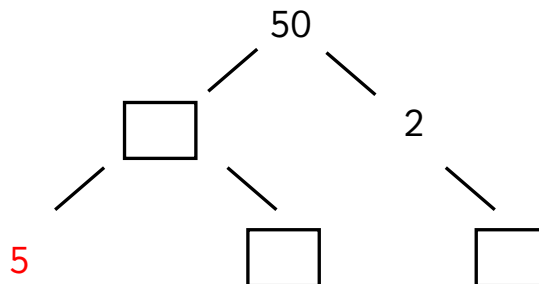
Start by seeing if the number is divisible by 2. If it is not, then see if it is divisible by 3, then 5, then 7 going through all the prime numbers. (You only need to reach half the number.)

The best way to show this is by drawing a 'factor tree' like the one below:



The prime factors of 36 are  $3 \times 3 \times 2 \times 2 = 36$

Fill in the gaps in this factor tree for 50



Find the prime factors of: 1. 24   2. 26   3. 40   4. 55   5. 16   6. 30

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Answers

Missing are: 25, 5, 2

In any order:

1. 2, 2, 2, 3

2. 2, 13

3. 5, 2, 2, 2

4. 5, 11

5. 2, 2, 2, 2

6. 2, 3, 5