Friday: To know and understand prime numbers, prime factors and composite numbers.

Including challenge.

Factors are numbers that divide exactly into another number.

A prime number is a number that is only divisible by itself and one.

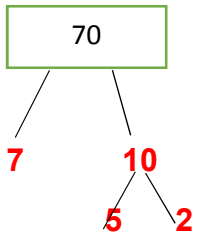
A composite number is a number which is not a prime number.

PRIME FACTORS

A factor which is also a prime number is also a prime factor.

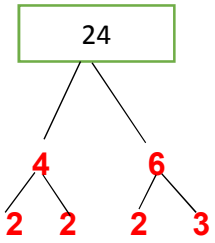
To find the prime factors of a number we can use a factor tree.

A factor tree for 70.



70 = 7 x 2 x 5

A factor tree for 24



24 = 2 x 2 x 2 x 3

Use a factor tree to find all the prime factors of:

1) 32
2) 49
3) 80
4) 66
5) 48
6) 42
7) 75
8) 100

CHALLENGE

Use a factor tree to find all the prime factors of:

1) 45
2) 68
3) 72
4) 99
5) 120
6) 104
7) 168
8) 216

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Answers including Challenge.

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Use a factor tree to find all the prime factors of:

1) 32 2 x 2 x 2 x 2 x 2
2) 49 7 x 7
3) 80 2 x 2 x 2 x 2 x 5
4) 66 2 x 3 x 11
5) 48 2 x 2 x 2 x 2 x 3
6) 42 2 x 3 x 7
7) 75 3 x 5 x 5
8) 100 2 x 2 x 5 x 5

CHALLENGE

Use a factor tree to find all the prime factors of:

1) 45 3 x 3 x 5
2) 68 2 x 2 x 17
3) 72 2 x 2 x 2 x 3 x 3
4) 99 3 x 3 x 11
5) 120 2 x 2 x 2 x 3 x 5
6) 104 2 x 2 x 2 x 13
7) 168 2 x 2 x 2 x 3 x 7
8) 216 2 x 2 x 2 x 3 x 3 x 3