Factors and HCF

From: A Maths Dictionary for Kids by Jenny Eather at www.amathsdictionaryforkids.com

A factor is a whole number that divides exactly into another given number.

That is, a whole number that multiplies with another number to make a third number.



To find the factors of a number, first divide by 1 and then keep working down using the next lowest number that will divide exactly. Record each factor pair.

$$\begin{array}{c}
20 \\
1 \times 20 \\
2 \times 10 \\
4 \times 5
\end{array}$$



The HCF or GCF is the highest or greatest common factor that will divide two or more other numbers exactly.

Finding the HCF or GCF

- 1. List the factors for each number.
- **20** 1, 2, 4, 5, 10, 20 **24** 1, 2, 3, 4, 6, 8, 12, 24
- 2. List the common factors.
- 1, 2,4
- 3. Record the highest. HCF or GCF = 4

© Jenny Eather 2012. All rights reserved.