Name:

Learning Goal 3.2

Given a number or set of numbers, identify the prime factorization of each element and use it to find the GCF, LCM, perfect squares or cubes and/or factored form.

Factor

A number that divides the term evenly.
- a product of factors will equal the term.

Multiple

Any integer multiplied by your term.

- the term becomes a tactor of the multiple.

Writing the coefficient as a product of prime numbers.

Example Find the lowest common multiple (LCM) and the greatest common factor (GCF) of 6 and 15.

Example Find the GCF of 220 and 860 without a calculator.

LCM(220,860) = 22x5 x11 x43'

Assignment

Example Find the GCF of 120, 906 a	and 1400 without a calculator.
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Example Find the LCM of 21 and 45 without a calculator.

Example Find the LCM of 15, 20, 24 and 27 without a calculator.

Example Write the following fraction in lowest terms without a calculator.

$$\frac{2145}{1105}$$