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| **Exploring Greatest Common Factors and Lowest Common Multiples** | | | |
| Writes a number as a product of two factors  18 = 1 × 18  18 = 2 × 9 | Identifies all factors of a number, then identifies the greatest common factor for two numbers  Factors of 18:  1, 2, 3, 6, 9, 18  Factors of 12:  1, 2, 3, 4, 6, 12  The greatest common factor of 18 and 12 is 6. | Writes the multiples of two numbers and identifies lowest common multiple  Multiples of 3:  3, 6, 9, 12, 15, 18, 21, 24, …  Multiples of 8:  8, 16, 24, 32, 40, …  The lowest common multiple is 24. | Identifies the lowest common multiple and greatest common factor of 3 numbers  4, 6, and 8  Multiples of 4:  4, 8, 12, 16, 20, 24, …  Multiples of 6:  6, 12, 18, 24, …  Multiples of 8:  8, 16, 24, …  The lowest common multiple is 24.  Factors of 4:  1, 2, 4  Factors of 6:  1, 2, 3, 6  Factors of 8:  1, 2, 4, 8  The greatest common factor is 2. |
| **Observations/Documentation** | | | |
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