Name: _____   Date: _____

Learning Goal 3.2	Given a number, a set of numbers or a polynomial expression, identify the prime factorization of each element and use it to find the GCF, LCM, perfect squares or cubes and/or factored form.

When finding factored form of an expression, the question is **really asking** for you to find the _____.

1. Numbers

2. Variable(s)

Consider $8x + 4$. Using the appropriate algebra tiles:

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Arrange the tiles into rectangles (there's more than one possibility). Draw the rectangles here. Please leave lots of space between your drawings.

Use algebra tiles to help you find different factored forms of the following expressions. Write down the factored expression next to each diagram.

1. $4x + 12$

2. $6m + 9$

3. $10k + 20$

4. $6c + 4c^2$

5. $8q^2 + 16$