**BLM 7.PR.6: Formulating Relations to Match Word Descriptions of Patterns**

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| **The Pattern Described in Words** | | | | |
| **Variable *x***  The quantity that changes in a step-by-step fashion, similar to a term value | **A Coefficient of *x***  Every *x* is multiplied or divided by this number | **A Constant**  A quantity always there, or always subtracted | **Variable *y***  The total quantity after performing the operation(s) related to *x* | **Relation**  The combined symbolized pieces of the pattern |
| **Pattern in Words**  *Example:*  Our class orders 3 more pizzas than Miss Frizzle’s class does. Number of pizzas we order. | | | | |
| *x* | N/A or 1 | + 3 | *y* | *y* = *x* + 3 |
| **Pattern in Words**  There are twice as many eyes in a room as there are mammals. Number of eyes in the room. | | | | |
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| **Pattern in Words**  There are 4 people seated at a table. Each additional table seats 2 more people. Number of people seated. | | | | |
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| **Pattern in Words**  Jose is selling his puppies for $25 each. He paid $15 for advertising. Money he makes. | | | | |
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| **Pattern in Words**  There are 12 wheels on the train engine. Each car has 8 additional wheels. Total number of wheels. | | | | |
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