**Identify the appropriate grade level**

**Grades 5 – Algebra 1**

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| Use an equation to represent this situation:  “A full box of cookies and 4 extra equal 24 cookies” |  |  |
|  |  |  |

**Algebra Equations**

**Grades 5 – Algebra 1 Key**

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| --- | --- | --- | --- | --- |
| **SOL 5.19** | **SOL 6.13** | **SOL 7.12** | **SOL 8.17** | **ALGEBRA 1** |
| Use an expression with a variable to represent a given verbal expression involving one operation  *“A full box of cookies and 4 extra equal 24 cookies”* | * **Solve 1-step linear equations in one variable with integer coefficients and unit fractions** * **Practical problems are included** * **Modeling** | **NOTE**  ***Simplifying expressions with rational numbers first introduced in SOL 7.11. Students will need lots of practice prior to simplifying equations with rational numbers.***   * **Solve 2-step linear equations in one variable** * **Coefficients and numeric terms will be rational numbers** * **Practical problems are included** * **Modeling** | * **Variables on both sides** * **Multi-step linear equations in one variable  (up to 4 steps)** * **Coefficients and numeric terms will be rational** * **Combining like terms**   ***Prior Knowledge Note: Distributive property is included in grade 7 for evaluating algebraic expressions for given replacement values of the variable (SOL 7.11)*** | * **Multi-step linear equations in one variable** * **Quadratic equations in one variable** * **Determine whether a linear equation in one variable has one, an infinite number, or no solutions** |