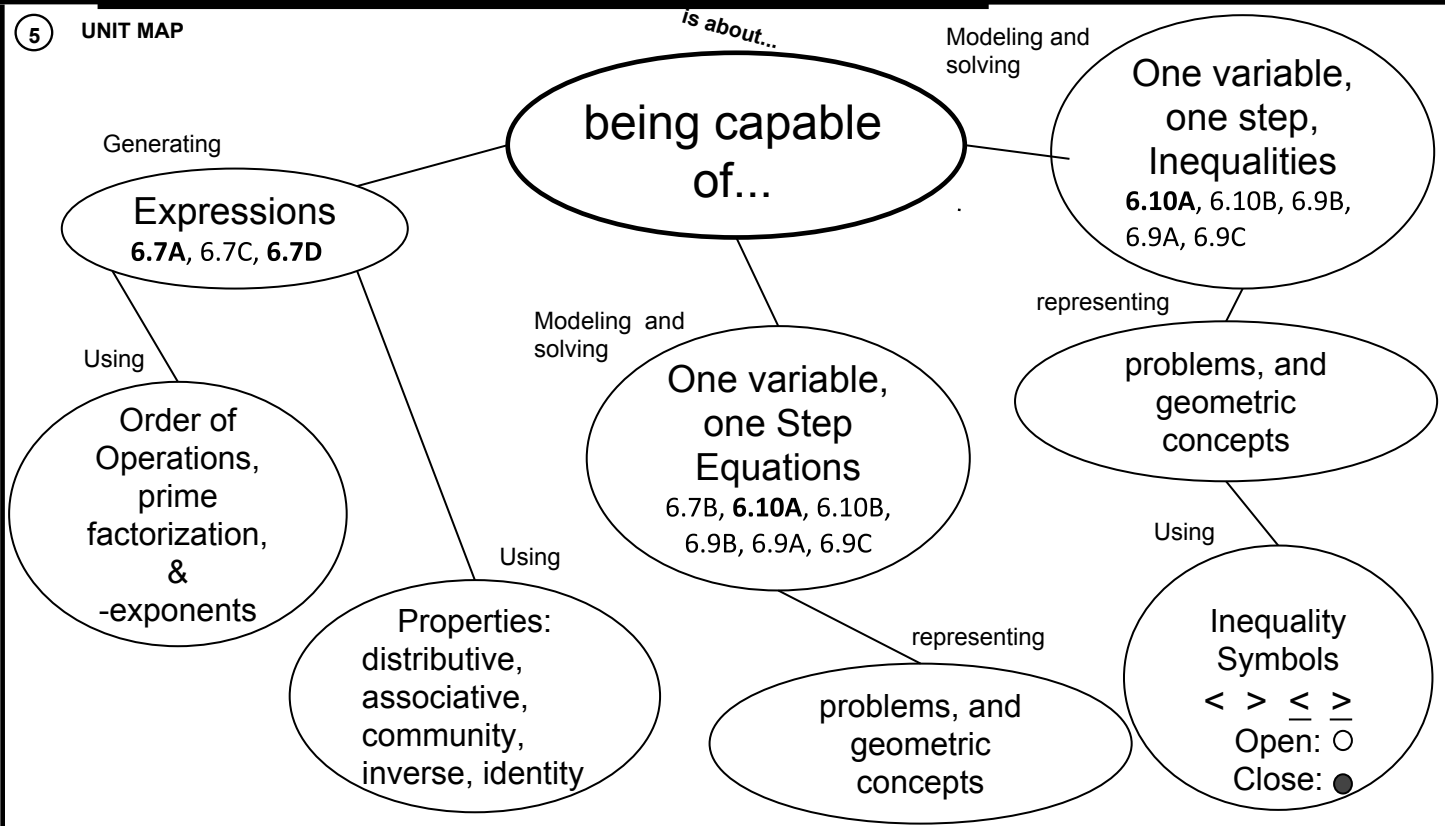


When students have an unknown number, they will be able to use expressions, equations, or inequalities to solve for the variable.

<p>2 LAST UNIT /Experience <i>Representing Numerical Data</i></p>	<p>1 CURRENT UNIT <b>Expressions, Equations, &amp; Inequalities</b></p>	<p>3 NEXT UNIT /Experience Multiple Representations</p>
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8 UNIT SCHEDULE

1/18 Intro to Unit 6  
1/22-23 GEMDAS  
1/24 - 1/25 Prime Factorization  
1/28 - 2/1 Algebraic Expressions  
2/4 - 2/8 Equations  
2/11 - 2/13 Inequalities  
2/14 Review  
2/15 Common Assessment (Test)



Vital Vocabulary	Expression vs. Equation	Equality vs. Inequality	Variable	Prime Factorization	<ul style="list-style-type: none"> <li>- Generate</li> <li>- Model</li> <li>- Solve</li> <li>- Represent</li> </ul>	6 Unit Relationships											
	<table border="1"> <tr> <th>expression</th> <th>equation</th> </tr> <tr> <td>does not have an equal sign (only + or -)</td> <td>has an equal sign separating two expressions</td> </tr> </table> <p>Inequality symbols &gt; ≥ &lt; ≤</p>	expression	equation	does not have an equal sign (only + or -)			has an equal sign separating two expressions	<table border="1"> <tr> <th>symbol</th> <th>symbols</th> </tr> <tr> <td>=</td> <td>&lt; &gt; ≤ ≥ ≠</td> </tr> <tr> <th>examples</th> <th>examples</th> </tr> <tr> <td>3 + 4 = 7</td> <td>x + 3 &lt; 10</td> </tr> <tr> <td>x - 3 = 5</td> <td>4x ≥ 18</td> </tr> </table>	symbol	symbols	=	< > ≤ ≥ ≠	examples	examples	3 + 4 = 7	x + 3 < 10	x - 3 = 5
expression	equation																
does not have an equal sign (only + or -)	has an equal sign separating two expressions																
symbol	symbols																
=	< > ≤ ≥ ≠																
examples	examples																
3 + 4 = 7	x + 3 < 10																
x - 3 = 5	4x ≥ 18																

# The Unit Organizer

## Expressions, Equations, Inequalities

is about...

being capable of...

Generate

Expressions  
6.7A, 6.7C, 6.7D

Model and solve

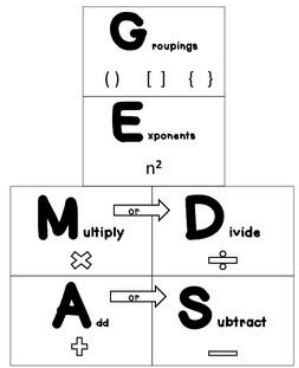
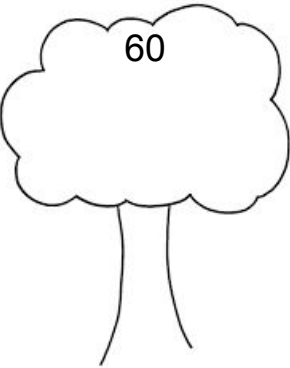
One variable,  
one step,  
Inequalities  
6.10A, 6.10B, 6.9B,  
6.9A, 6.9C

Model and solve

One variable,  
one Step  
Equations  
6.7B, 6.10A, 6.10B,  
6.9B, 6.9A, 6.9C

Write as an inequality, solve and place on the number line:

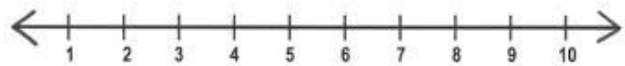
Sri, who is not yet 10 years old, is two years older than Lily



$$15 - 4^2 \div -2 + 8$$

Write as an equation and solve:

How many packages of diapers can you buy with \$40 if one package costs \$8?



Standard Form:

Expanded Form:

NEW UNIT SELF-TEST QUESTIONS

- Why is equivalence an important part of solving problems?
- How is solving equations related to Order of Operations?
- How can an equation or inequality be used to represent a given situation?
- How is solving an inequality similar to solving an equation?