Name_____

Unit 6 Study Guide

<table>
<tr>
<td>Words to Expressions

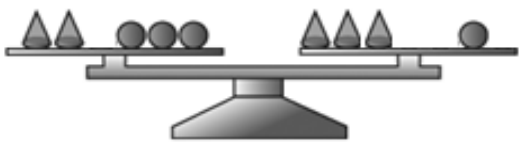
<table><tr><td>+</td><td>-</td></tr><tr><td>x</td><td>÷</td></tr></table></td>
<td>3 less than twice a number

5 more than a number divided by 3

a number times 5 add 7</td>
</tr>
<tr>
<td>Two Step Equations</td>
<td>5x – 7 = 13

x/3 + 2 = 7</td>
</tr>
<tr>
<td>Equation as a picture

Study the diagram.

  </td>
<td>How many spheres is one cone worth?

How many cones would equal 10 spheres?</td>
</tr>
</table>

<table>
<tr><td colspan="2">Inequalities

>

<

$\geq$

$\leq$

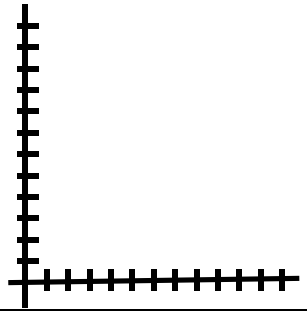
Data Set</td></tr>
<tr><td>Graphing Inequalities</td><td>Graph the inequality $y < 7$

Which numbers in this data set make satisfy the inequality?

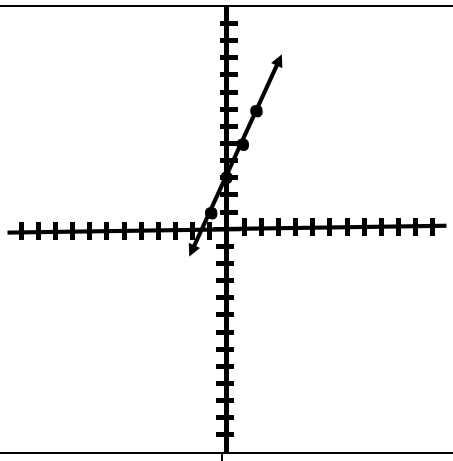
{ 3, 5, 6, 7, 9, 10 }</td></tr>
<tr><td>Solving Inequalities</td><td>Solve the inequality $y - 5 \geq 9$

Name 3 values that satisfy the inequality.</td></tr>
<tr><td>Satisfying Multiple Inequalities</td><td>$x - 4 > 5$
$6x \leq 72$

Name 3 numbers that would satisfy both inequalities.</td></tr>
</table>

Patterns and Tables	Study the table below. <table><tr><td>x</td><td>y</td></tr><tr><td>3</td><td>10</td></tr><tr><td>4</td><td>13</td></tr><tr><td>5</td><td>16</td></tr></table> What is the rule for the table? What is the equation for the table?
Equations to Graphs	$y = x + 6$ <table><tr><td>x</td><td>y</td></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr><tr><td>4</td><td></td></tr></table> 

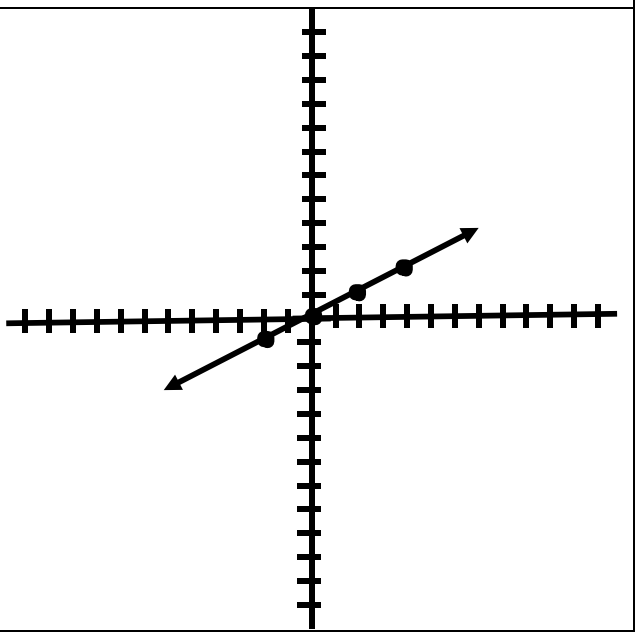
Equations from Graphs



x	y

Write the equation for the line.

Using Graphs to Estimate Data



What is the value of y if x = -4?

What is the value of y if x = 10?

My student studied for at least 30 minutes.

Parent Signature_____ Date_____