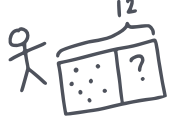

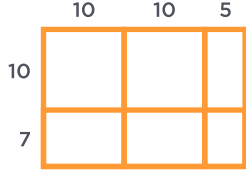
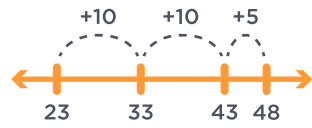


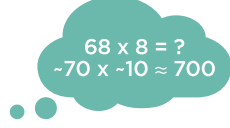

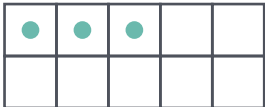


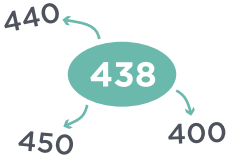
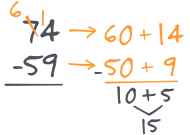


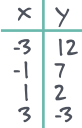


# Math Teacher 101: A Glossary of Mathematical Terms

TERM	WHAT IT MEANS	VISUAL EXAMPLE
<b>Modeling</b>	Visually representing a situation; most simply, draw a picture!	
<b>Array</b>	A way to organize objects into a grid.	
<b>Area Model</b>	A rectangular diagram showing area (length x width); A type of array (!) helpful with modeling scenarios with larger numbers.	
<b>Number Line</b>	Good for showing distance between 2 numbers, skip counting, and showing addition/subtraction problems in a meaningful way.	
<b>Manipulatives</b>	Physical objects to help you model and count. They just really need to be uniform with each other. You can make your own or find some around your house - pasta, dry beans, pennies, LEGOs, paper clips, etc.  No need to buy anything!	
<b>Unit Tiles</b>	Manipulatives specifically helpful with area problems or fractions where the size or area is being counted or measured. You can easily make your own from paper.	
<b>Mental Math</b>	Doing basic math, estimation, and meaning-making of numbers in your head (NOT complicated calculations or algorithms).	
<b>Fact Fluency</b>	Being able to recall basic math facts in your head (e.g. sums of 10, multiplication tables).	

<p><b>Ten Frames</b></p>	<p>A 2 x 5 array to help build numbers less than 10 or sums of 10.</p>	
<p><b>Number Sense</b></p>	<p>An understanding of what numbers mean and how operations affect them.</p>	
<p><b>Place Value</b></p>	<p>The position of a digit determines its value (e.g. 400 vs. 40 vs. 4).</p>	
<p><b>Friendly Numbers or Benchmark Numbers</b></p>	<p>Helpful numeric reference points, easier to remember and work with (like 10s or 100s).</p>	
<p><b>Regrouping</b></p>	<p>You may know this as “carrying” in addition or “borrowing” in subtraction. It’s the process of breaking up numbers to make it easier for us to add and subtract.</p>	
<p><b>Hundreds Chart</b></p>	<p>A 10 x 10 table listing the numbers 1 - 100; good for skip counting, recognizing patterns in the numbers; can also be used to help with addition/subtraction problems.</p>	
<p><b>Part-Part-Whole</b></p>	<p>A concept to help students generalize the idea that numbers can be decomposed into their parts.  It also helps students make the transition and see the relationship between addition (part + part = whole) and subtraction (whole - part = part).</p>	
<p><b>Tables</b></p>	<p>Two-column charts can help organize numbers to recognize patterns or trends.</p>	
<p><b>Graphs</b></p>	<p>Lines made of points on a coordinate grid; can be built from tables and good for representing patterns, trends, and data.</p>	