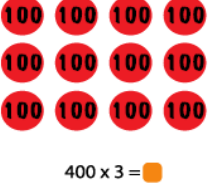
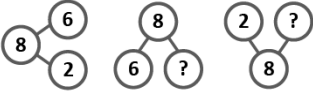
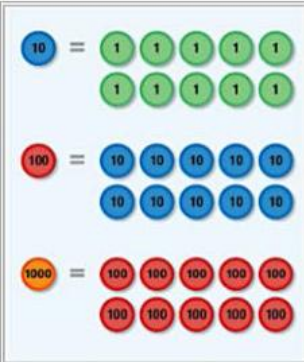







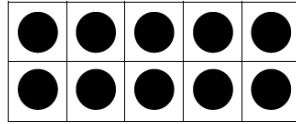
The Engage NY Math Parent's Glossary K-5

9 Basic Engage NY Terms and Models

Math Term	Picture	Definition	Click the Link Below to Watch a Video to Learn More
<p>1. <i>Array and Area Model</i> (Grades 1-5)</p>	 <p style="text-align: center;">400 x 3 = ■</p>	<ul style="list-style-type: none"> • An array or area model is an arrangement of a set of objects organized into equal groups in rows and columns. • Arrays or area models help make counting easy in the lower grades. Counting by equal groups is more efficient than counting objects one by one. • Later, children use arrays and area models to learn about multiplication and area. 	<p style="text-align: center;">Array and Area Model Video</p>
<p>2. <i>Number Bond</i> (Grades PK-5)</p>		<ul style="list-style-type: none"> • A number bond is a picture or visual way to see a number and 	<p style="text-align: center;">Number Bond Video</p>

		<p>the parts that can make up a number.</p> <ul style="list-style-type: none"> Number bonds help children "see" addition as putting things together and subtractions as taking things apart. 	
<p>3. Number Disks (Place Value Disks) (Grades 2-5)</p>		<ul style="list-style-type: none"> Number disks are used to help students develop their understanding of place value. 	<p>Number Disks Video</p>
<p>4. Number Path (Grades PK-1)</p>		<ul style="list-style-type: none"> The number path is used in K and 1st Grade math lessons to help children understand that each whole number represents one unit (one space, one number). 	<p>Number Paths Video</p>
<p>5. Number Tower (Grades PK-3)</p>		<ul style="list-style-type: none"> Number towers help children see the concept of "one" 	<p>Number Towers Video</p>

		more" and "one less".	
6. Place Value Bundle (Grades PK-2)		<ul style="list-style-type: none"> Provides students with hands-on experience with place value and regrouping. 	Place Value Bundle Video
7. Rekenrek (Grades PK-5)		<ul style="list-style-type: none"> The rekenrek helps kids build fluency with numbers by visualizing groups of 5 and 10. 	Rekenrek Video
8. Tape Diagram (Grades 1-5)		<ul style="list-style-type: none"> In the early grades, the tape diagram is used to help students visualize the numbers in their word problems. In the upper grades, tape diagrams are used to help students learn fractions and to prepare for algebra. 	Tape Diagram Video
9. Ten Frame (PK-3)		<ul style="list-style-type: none"> In the lower grades, ten frames help children learn counting and place 	Ten Frame Video



- value.
- Ten frames teach children to add and subtract within 20 by recognizing patterns of 5 and 10.