

Grade 2 Important Math Information
Addition and Subtraction to/from 45



Dear Family,

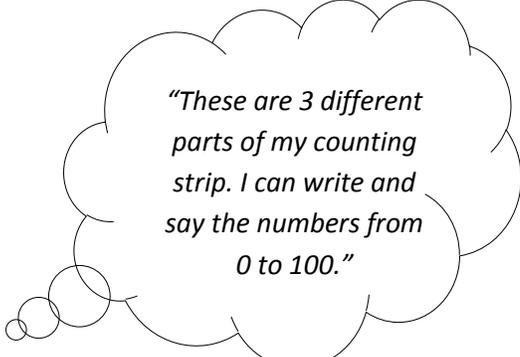
Our class is starting the year with a unit of study in mathematics called *Addition and Subtraction to/from 45*.

This unit focuses on counting, combining and breaking apart numbers in different ways, and understanding addition and subtraction. We will also work on telling time and the addition fact combinations of make 10, plus 1, and plus 2.

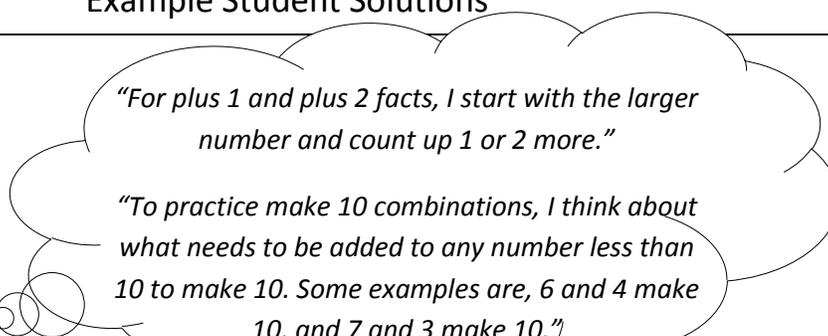
The specific learning goals your student will be working toward are listed below with examples of student work showing understanding of each learning goal.

Learning Goal: Make sense of and develop strategies to solve result unknown addition and subtraction word problems with totals up to 45.	
Example Problems	Example Student Solutions
<p>Kira had 10 marbles. Jake gave her 12 more. How many marbles does Kira have now?</p>	<p>10 marbles +</p> <p style="text-align: center;">Kira has 22 marbles.</p> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; width: fit-content; margin-left: auto; margin-right: auto;"> <p><i>"I had 10 marbles and counted out 12 more. Then I counted all the marbles starting with 10 and counting on 12 more to make 22."</i></p> </div>
<p>Jalen had 18 baseball cards. He gave 11 to his brother. How many baseball cards does Jalen have now?</p>	<p style="text-align: center;">18 cubes</p> <p style="text-align: center;">Now Jalen has 7 baseball cards.</p> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; width: fit-content; margin-left: auto; margin-right: auto;"> <p><i>"I drew 18 cubes and took 11 of them away. There are 7 cubes left."</i></p> </div>

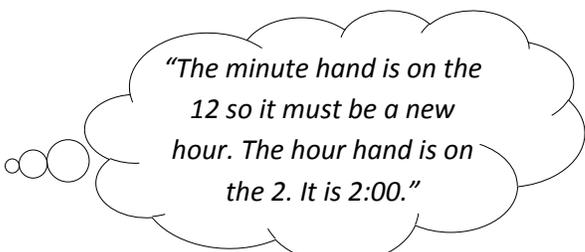
Learning Goal: Count to 100 and be able to read and write numbers from 1 to 100.

Example Problem	Example Student Solutions
<p>Make a counting strip by starting at 0 and writing the numbers, one under the other, going as far as you can.</p>	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="border-left: 1px dashed black; border-right: 1px dashed black; padding: 5px; text-align: center;"> 0 1 2 3 4 5 6 7 </div> <div style="border-left: 1px dashed black; border-right: 1px dashed black; padding: 5px; text-align: center;"> 57 58 59 60 61 62 63 64 </div> <div style="border-left: 1px dashed black; border-right: 1px dashed black; padding: 5px; text-align: center;"> 93 94 95 96 97 98 99 100 </div> </div> <div style="margin-top: 20px; text-align: right;">  <p><i>"These are 3 different parts of my counting strip. I can write and say the numbers from 0 to 100."</i></p> </div>

Learning Goal: Fluently add plus 1, plus 2, and make 10 combinations.

Example Problems	Example Student Solutions
<p> $1 + 8 = \square$ $5 + 2 = \square$ $6 + 4 = \square$ $7 + 3 = \square$ </p>	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="border-left: 1px dashed black; border-right: 1px dashed black; padding: 5px; text-align: center;"> $1 + 8 = 9$ $5 + 2 = 7$ $6 + 4 = 10$ $7 + 3 = 10$ </div> <div style="margin-top: 20px; text-align: right;">  <p><i>"For plus 1 and plus 2 facts, I start with the larger number and count up 1 or 2 more."</i></p> <p><i>"To practice make 10 combinations, I think about what needs to be added to any number less than 10 to make 10. Some examples are, 6 and 4 make 10, and 7 and 3 make 10."</i></p> </div> </div>

Learning Goal: Tell and write time to the nearest hour.

Example Problem	Example Student Solution
<p>What time is it?</p> 	<p style="text-align: center;">It is 2:00.</p> <div style="text-align: right; margin-top: 20px;">  <p><i>"The minute hand is on the 12 so it must be a new hour. The hour hand is on the 2. It is 2:00."</i></p> </div>

Mathematical Thinking and Practices Learning Goal: Persevere to understand problems and solve them using multiple strategies.



Things you can do at home to support your student throughout this unit of study:

- Ask your student about the strategies he/she is using to solve addition and subtraction word problems. It is important for students to be able to explain their thinking orally and on paper.
- Practice plus 1, plus 2, and make 10 addition fact combinations.
- Practice telling time to the nearest hour.

