

Addition

This section will focus on understanding the concepts associated with the addition of whole numbers.

Tray Setup

Figure 1 illustrates the initial tray setup that will be used for all whole number operations. This setup is also what we refer to when students are reminded to reset their trays.

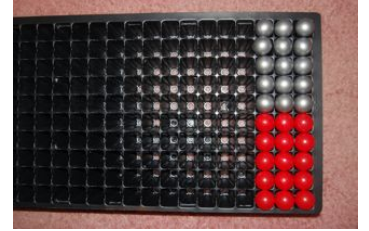


Figure 1

Whole Number Addition Overview

1. The concept of the addition of whole numbers will be modeled in both set and measurement form. Both forms are shown as they help the student understand when this operation is used in application.

2. The addition concept is first modeled as the union of two sets with the cardinality of each set representing the numbers to be added. Figure 2 represents the two sets to be combined. Figure 3 represents the set formed by combining the two original sets.

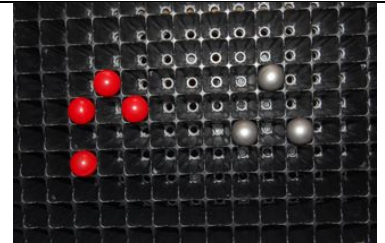


Figure 2

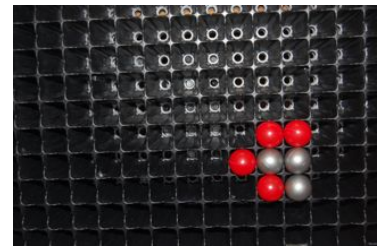


Figure 3

3. The concept of addition is then modeled as the total distance traveled on the number line. Figure 4 shows the two numbers to be added. Figure 5 shows the two numbers being combined in a straight line with the sum being the length of the line formed. Remind students that the operational procedure is still the same and that the only difference in the models is how the application is worded.

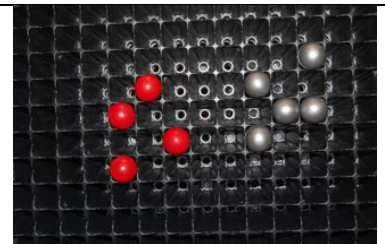


Figure 4

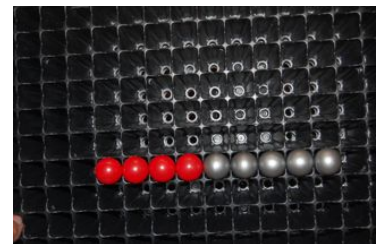


Figure 5

4. In all sections, the problems will be presented as word problems and solutions illustrated by the use of balls.	
5. All solutions are given in symbolic form with the accompanying written form.	

Instruction Movie Sample Slide

Lesson Name

Problem

Written → Addition
 Juan had two football cards and his father gave him six more for his birthday. How many football cards does Juan have altogether?

Manipulative →

$2 + 6 = 8$

Juan has eight football cards altogether.

Answer
Symbols
Words
Manipulative

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Instruction Movie Sample Slide

Lesson Name

Problem

Written → Addition
 John's little brother was playing with a set of blocks. If he had a tower made up of two blocks and added another six blocks, how tall would the tower be?

Manipulative →

$2 + 6 = 8$



The tower would be eight blocks tall.

Answer
Symbols
Words
Manipulative

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Assessment Movie Sample Slide

Written Addition Problem

4.)	<p>Tonya was playing with her baby sister and made a stack of blocks three high. Her baby sister added three more blocks to the stack. How many blocks high was the stack?</p>  <p>The stack was six blocks high.</p>	$3 + 3 = 6$
5.)	<p>Janet's father was digging a hole for a swimming pool. If he dug six feet deep on Friday and another five feet on Saturday, how deep would the hole be?</p>  <p>The hole was 11 feet deep.</p>	$6 + 5 = 11$

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Answer as Drawing

Answer in Symbols

Written Answer