

Brick Math Addition

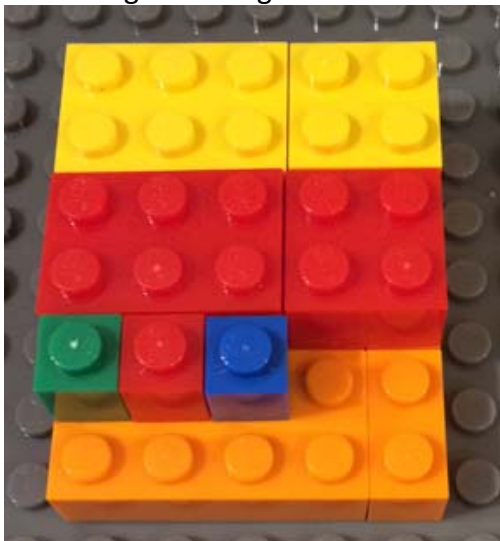
Answer Key for Chapter Assessments in Student Edition

Chapter 1

1. Bricks model two ten-frames that each show 10, and a third ten-frame with 3



Then bring bricks together to show $10 + 10 + 3 = 23$



2. (addends in red)

$$8 + 3 = 11$$

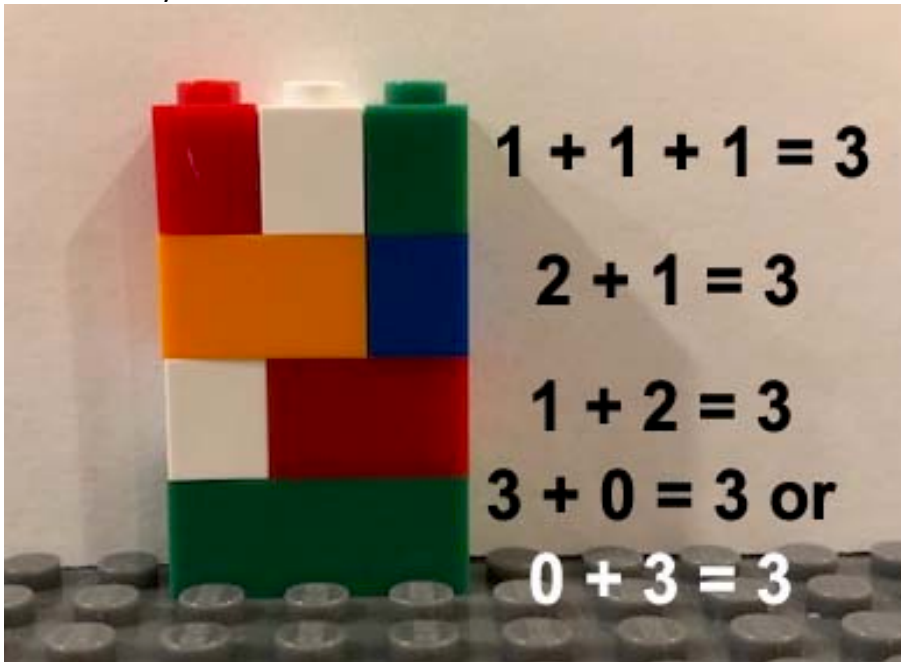
$$5 + 5 = 10$$

3. Sum

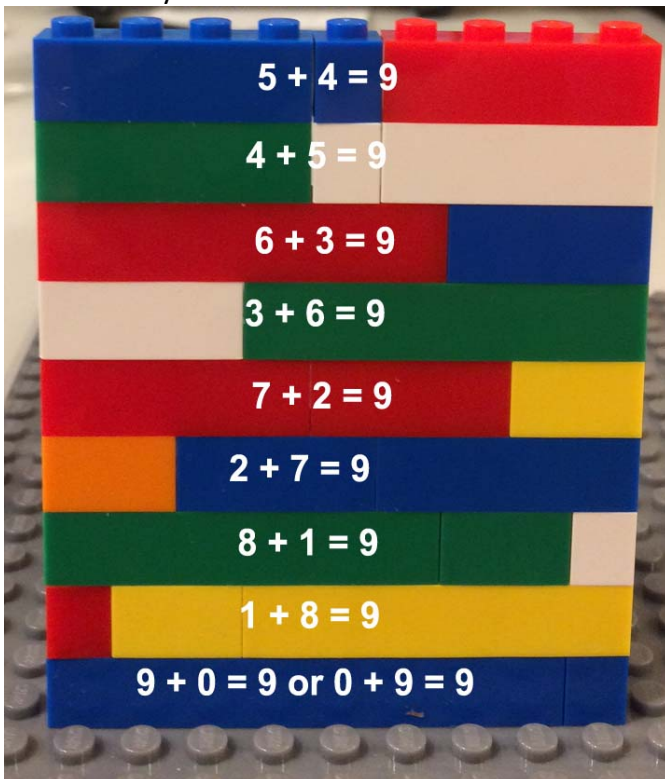
4. Solutions will vary

Chapter 2

1. All the ways to make the sum of 3:

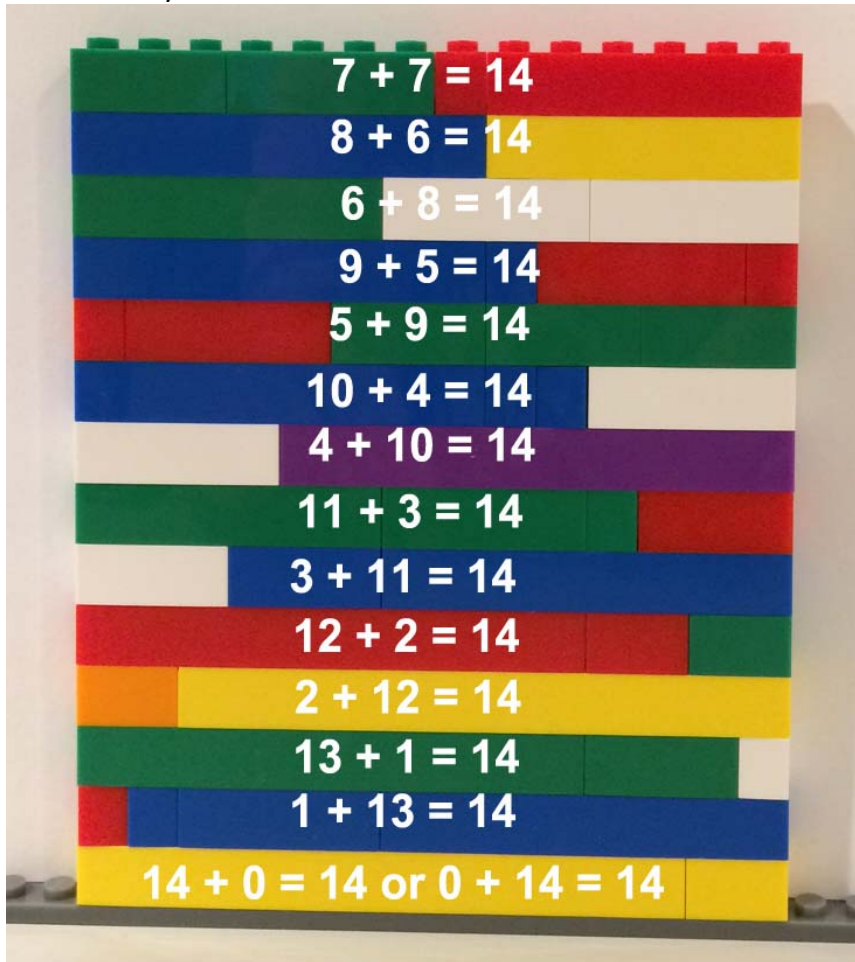


2. All the ways to make the sum of 9:



Students may model equations with three-number combinations for more variations

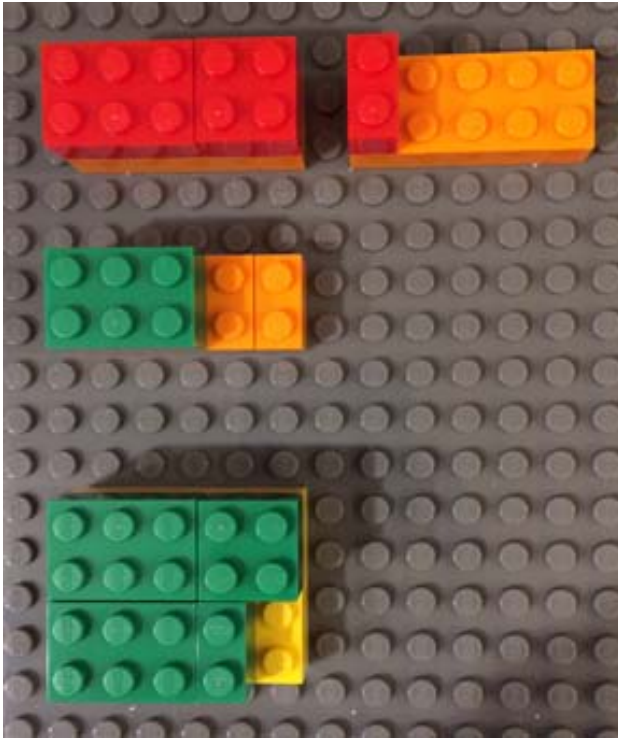
3. All the ways to make the sum of 14:



Students may model equations with three-number combinations for more variations.

Chapter 3

1. $12 + 6 = 18$

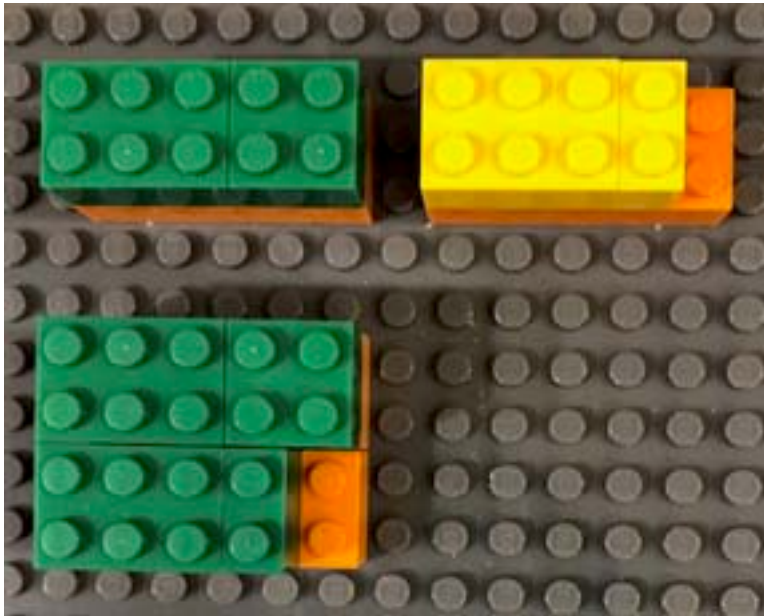


2. Solutions will vary. Model shown here for $10 + 4 = 14$

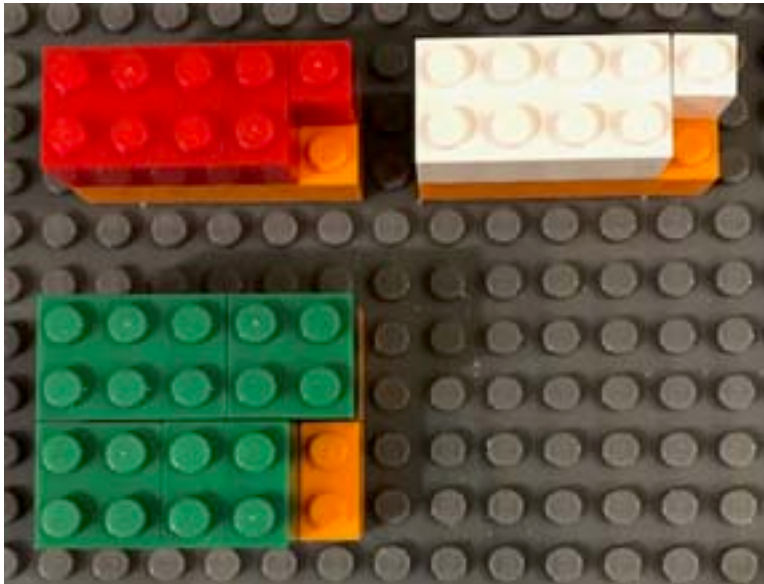


3. Solutions will vary. Models shown here for:

$$10 + 8 = 18$$



$$9 + 9 = 18$$



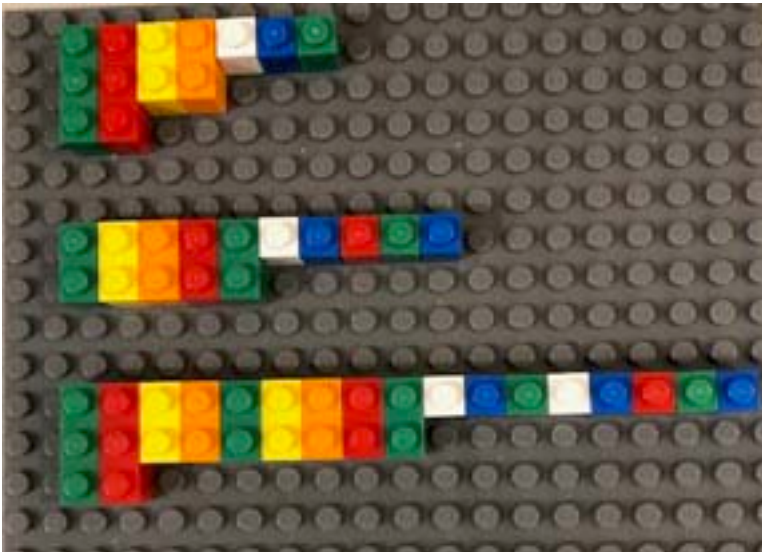
Chapter 4

1.



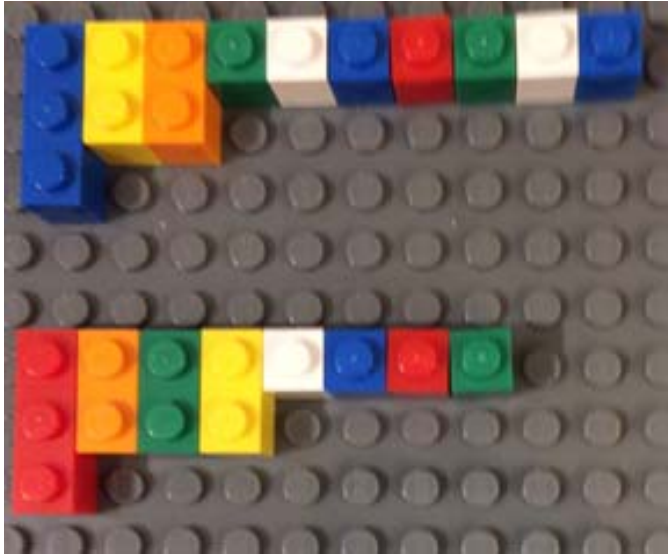
Yellow and orange 1x2 bricks model the number in the tens place

2. $223 + 55 = 278$



3. $127 + 134$

Model the numbers:



Model the addition:



Model the decomposition of 11 ones to 1 ten and 1 one

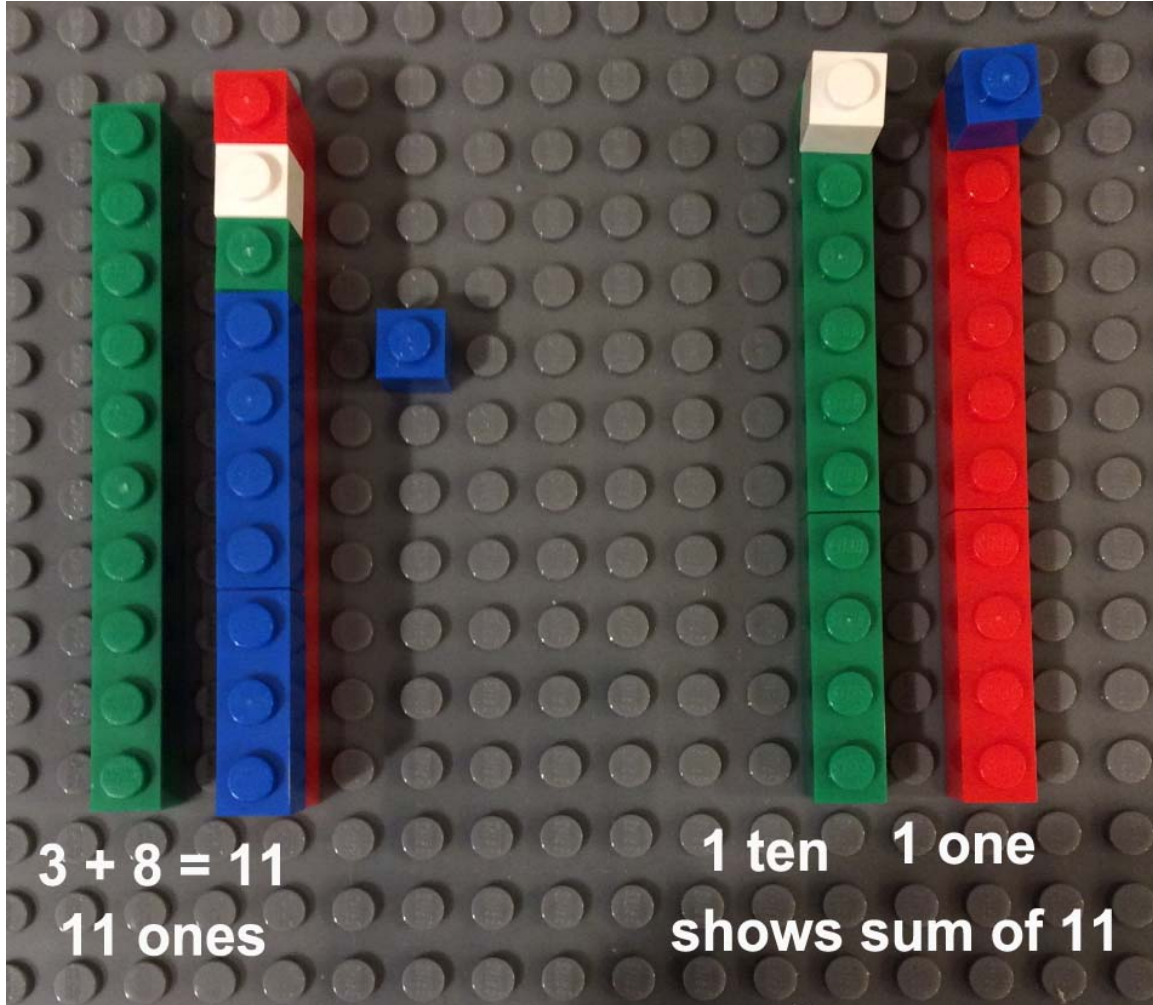


$$127 + 134 = 261$$

Chapter 5

1. $6 + 7 = 13$ (addends in red)

2.

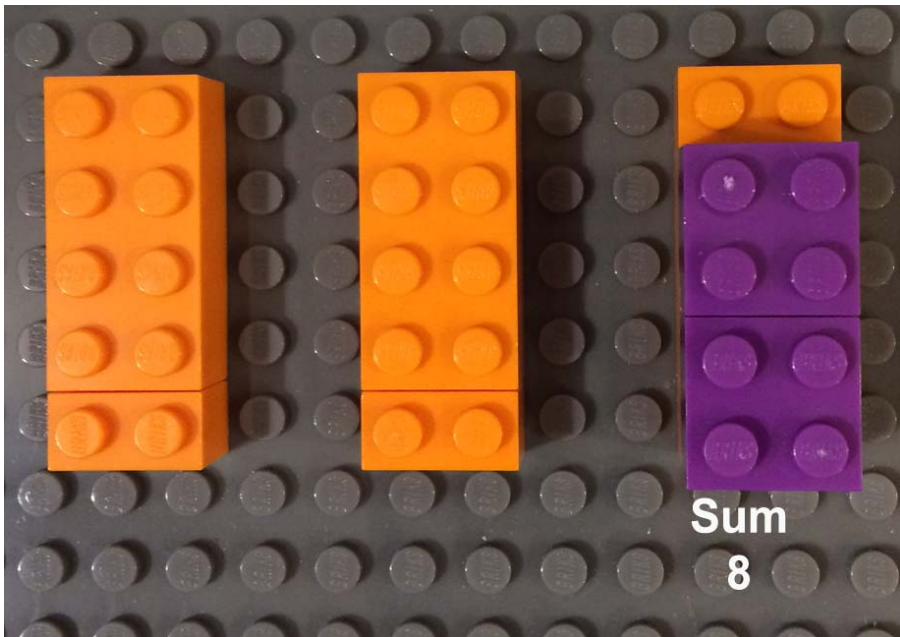
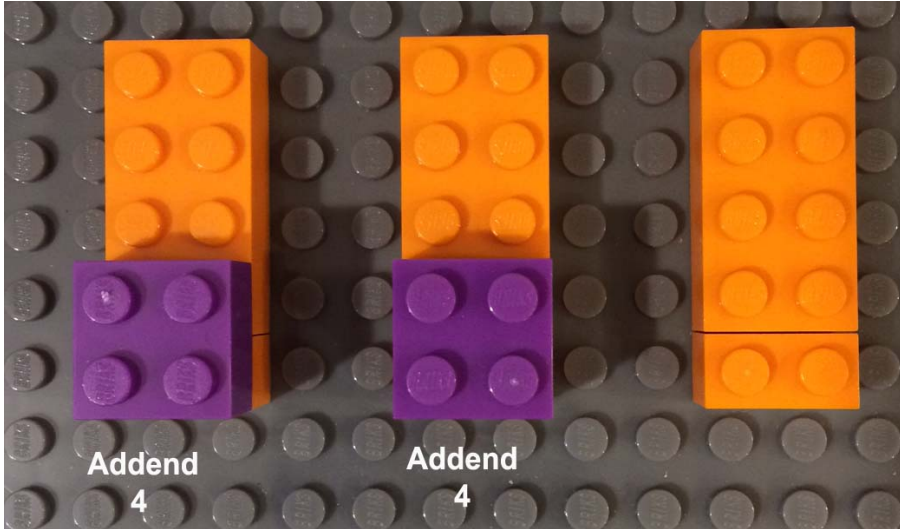


3. expanded form of 14: 1 ten and 4 ones

Chapter 6

1. The result in an addition problem is called the **sum**.

2. $4 + 4 =$ _____



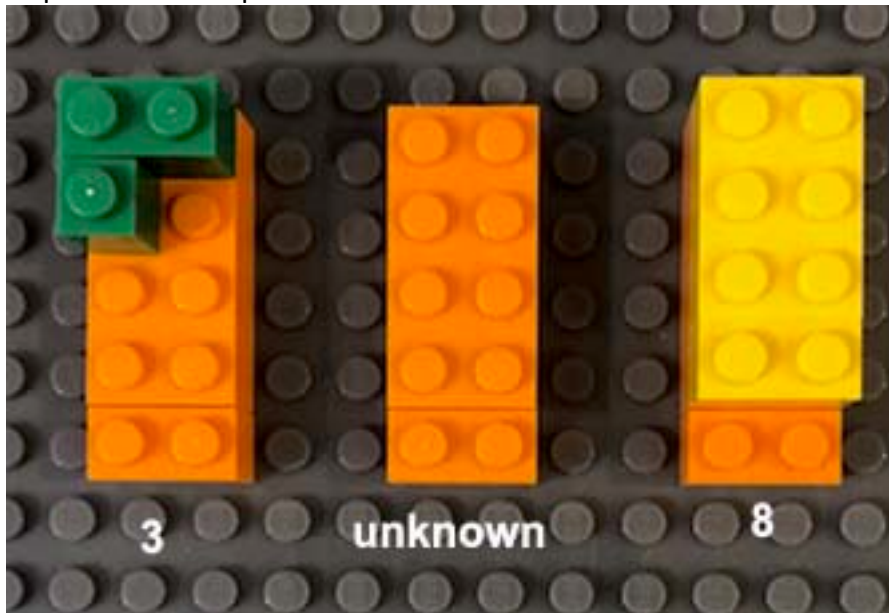
3.



Chapter 7

1. $7 + 2 = 9$ (addends in red)
2. $6 + \text{box} = 10$ (addends in red)
3. $3 + 4 = 7$ (sum in red)
4. $3 + \text{box} = 8$

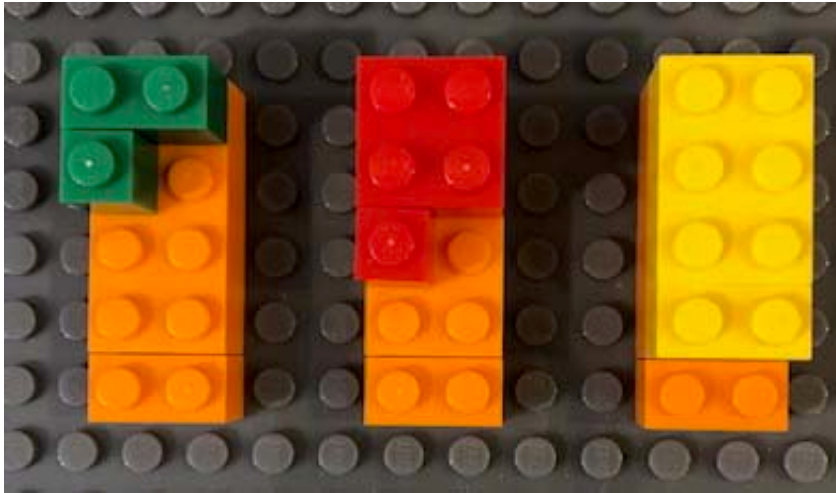
Step 1: Model the problem



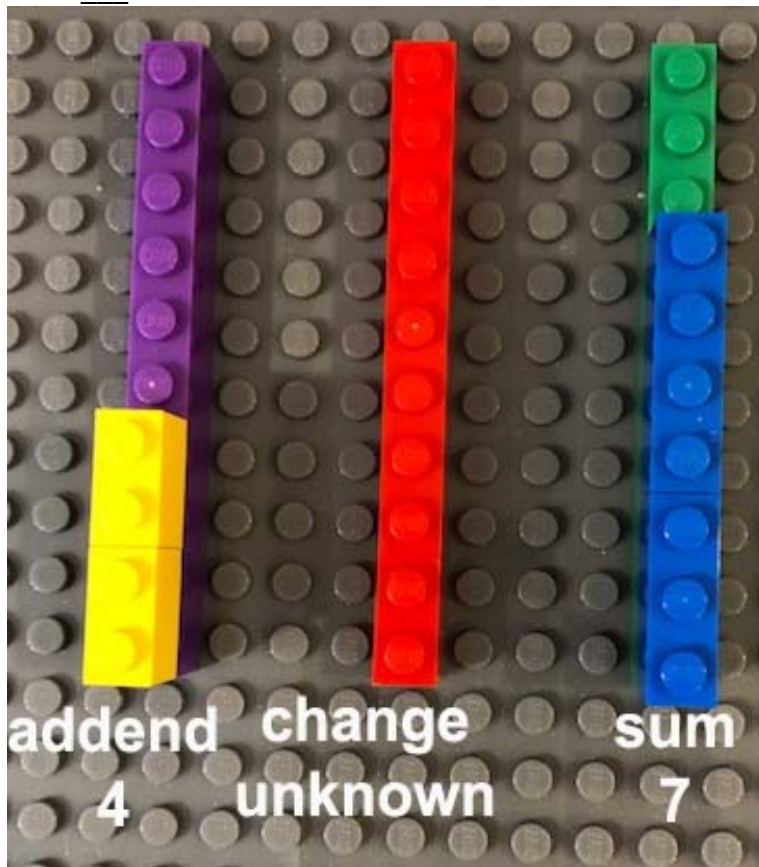
Step 2: Compare addend 3 with sum 8 by placing bricks from addend on top of bricks for sum and counting 5 studs uncovered



Step 3: Model shows solution: $3 + 5 = 8$



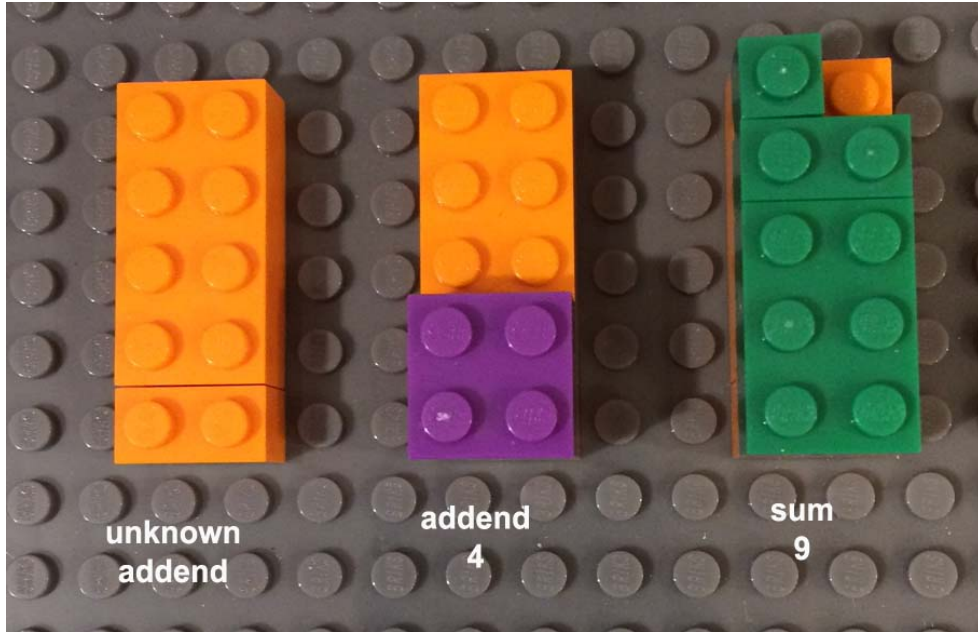
5. $4 + \underline{\quad} = 7$



Chapter 8

1. $4 + 2 = 6$ Addend 4 Addend 2 Sum 6
 $6 + 3 = 9$ Addend 6 Addend 3 Sum 9

2.



3. $\underline{\quad} + 4 = 5$

Model of problem:



Finding the start unknown number by comparing the change addend (4) to the sum (5):



Model showing the solution to the problem:

$$1 + 4 = 5$$

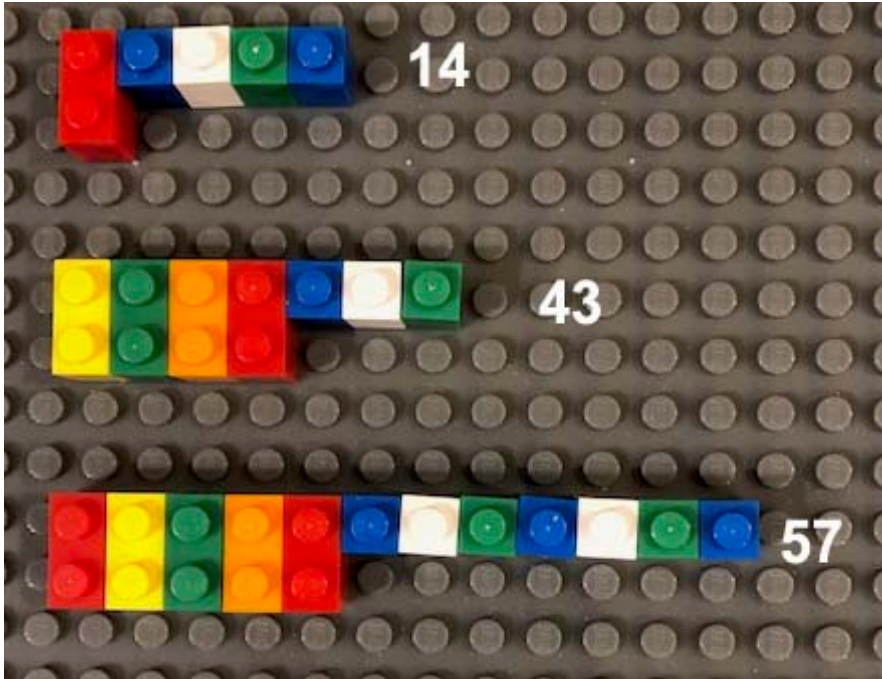


4. ____ - 6 = 3

$$9 - 6 = 3$$

Chapter 9

1. The solution to an addition problem is called the sum.
2. $14 + 43 = 57$



3. The model shows $12 + 21 = 33$