

Mathematics Chapter 1 Overview

Question: How can you model adding within 10?

Vocabulary:

Add: find the sum of two or more numbers; find how many in all

Addends: numbers that are added to form a sum

Addition Sentence: a number sentence where one number is added to another (ex. $5 + 2 = 7$)

Is equal to (=): is a number or amount that is the same as

Order: sequence or arrangement of things

Plus (+): added to

Sum: a number obtained as a result of addition

Zero: a number that when added to another number leaves the original number unchanged; a whole number that tells the number of objects in a set when none are present

1.1 Notice how the animals (for example) are joining or coming together. This action tells us that we are adding them.

1.2 In this section, we learn about the signs (+, =) and addition sentence, while using/drawing cubes. Make sure to draw the addends separately. For example, $3 + 2$ should have three cubes and two cubes drawn in separate groups.

1.3 This section is about modeling putting together using counters (drawn circles). The circles should be drawn directly above each addend in the number sentence. The circles are not drawn above the sum.

1.4 We are making models to solve addition problems! Each addend goes into the bar model and the sum goes below it!

| | |
|---|---|
| 7 | 1 |
|---|---|

1.5 When adding 0 to a number, the sum remains the same. PLEASE memorize all addition sentences with adding zero. The circles should be drawn directly above each addend in the number sentence. The circles are not drawn above the sum.

1.6 Let's understand that addends can be added in any order. Use two different colored objects at home (markers, crayons, marbles) and switch the order of the objects and add them again. Does the sum change when you switch the order of the addends?

1.7 This section is about showing all the ways to make a number. I recommend to start all with one color. With each row, remove one of that color and replace it with the other color. Continue this process until you have found all the ways.

1.8 Look at the pictures carefully and write the addends correctly in the boxes. Try timing yourself as you add the numbers on the homework page! Quickly adding numbers to ten will help with adding greater numbers in the future!