

Mathematical Background

Here is an overview of the content your students will learn in this unit.

Adding and Subtracting Within 20

Adding, Subtracting, and Counting

TEKS 1.3.D, 1.5.E, 1.5.F, 1.5.G

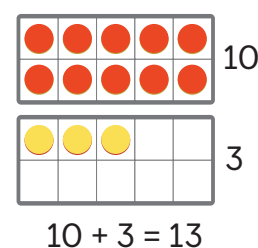
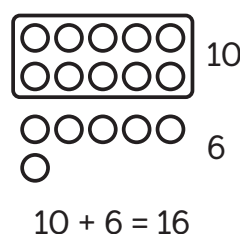
- Addition and subtraction can be solved by counting up and counting back.
- Subtraction can be solved by using addition to find the difference.
 - » $8 - 5 = \underline{\quad}$
 - » $5 + \underline{\quad} = 8$



Representing Teen Numbers

TEKS 1.2.B, 1.2.C

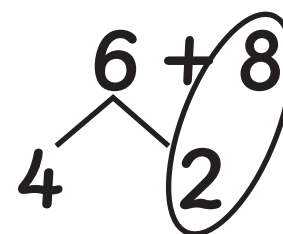
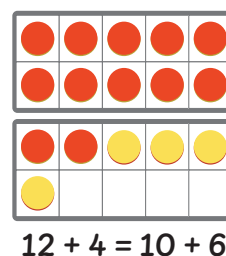
- Teen numbers can be represented in the $10 + n$ structure.
 - » $10 + 6 = 16$
 - » $13 = 10 + 3$



Using the $10 + n$ Structure to Add

TEKS 1.3.B, 1.3.D, 1.3.E, 1.5.D, 1.5.F, 1.5.G

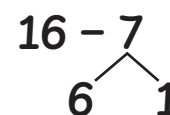
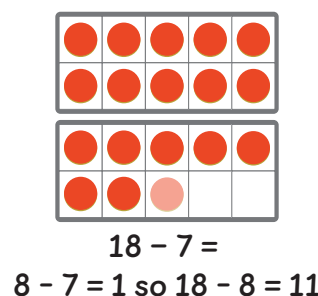
- Sums within 10 can be used to add to a teen number.
 - » $12 + 4 = \underline{\quad}$
 - $2 + 4 = 6$
 - $10 + 2 + 4 = 16$
- Addends can be broken apart to make 10.
 - » $6 + 8$
 - $4 + 2 + 8$
 - $10 + 4 = 14$



Using the $10 + n$ Structure to Subtract

TEKS 1.3.B, 1.3.D, 1.3.E, 1.5.D, 1.5.F, 1.5.G

- Differences within 10 can be used to subtract from a teen number.
 - » $18 - 7 = \underline{\quad}$
 - $8 - 7 = 1$
 - $18 - 7 = 11$
- Subtraction can be done in parts to get 10.
 - » $16 - 7$
 - $16 - 6 = 10$
 - $10 - 1 = 9$



Unit Investigation

Lesson 1 is the Unit Investigation. Students explore different ways to compose numbers within 20 to build curiosity and apply their own knowledge in a variety of ways. Use the **Caregiver Connection** to help students continue to explore the math they will see in the unit.

Caregiver Connection

Students may enjoy working with sets of up to 20 objects. Encourage them to find all the ways to compose each amount and to represent their thinking with addition expressions.