

KEY CONCEPT OVERVIEW

During the next few days, our math class will begin learning about addition with totals of 9 and 10. At first, students will have all of the numbers in a story and will write an addition sentence to match. Because students do not have to solve for an unknown number, they can focus on what each number stands for in the addition sentence. Next, students will solve number stories in which the answer is unknown. Some addition problems give a number pair and ask students to find the total. Other addition problems start with a total and ask students to find a number pair that matches the total. For example, “There are 9 crayons. Some are in a cup, and the rest are on the desk. Write a number sentence that shows how many crayons could be in a cup and on the desk.” In this example, $9 = 2 + 7$ is one correct answer, but there are several others.

You can expect to see homework that asks your child to do the following:

- Write a number bond and an addition sentence to match a picture, with the total shown on both the left ($10 = 3 + 7$) and the right ($3 + 7 = 10$).
- Draw a picture and use addition to solve number stories.
- Choose ways to break apart 9 and 10 and write addition sentences to match.

SAMPLE PROBLEM (From Lesson 31)

Ella has 6 chocolate chip cookies and 3 sugar cookies. How many cookies does she have altogether?



$$\underline{6} + \underline{3} = \underline{9}$$

Additional sample problems with detailed answer steps are found in the *Eureka Math Homework Helpers* books. Learn more at GreatMinds.org.

HOW YOU CAN HELP AT HOME

- Invite your child to gather 9 or 10 objects. Together, tell take apart/put together stories about the objects and write addition sentences to match. For example, “There are 9 toy trucks; 5 are green and 4 are red. Write a number sentence to match the story.” ($9 = 5 + 4$)
- Tell your child a story with a total of 9 or 10. For example, “There are 8 bears in a cave. When it starts to rain, 1 more bear enters the cave to get out of the rain. How many bears are now in the cave?” Encourage your child to say and write a number sentence to match the story. ($8 + 1 = 9$)
- Invite your child to place 9 or 10 pennies in a cup, shake the cup, and then pour out the pennies. Encourage your child to say an addition sentence to match the total number of heads and tails while you write the addition sentence. For example, if 6 pennies land heads up and 3 pennies land tails up, the matching number sentence is $6 + 3 = 9$.