

KEY CONCEPT OVERVIEW

During the next week, our math class will apply our understanding of addition and subtraction strategies. Students will choose which strategy to use to solve a variety of problems involving numbers up to 1,000. For example, students may use the arrow way to count on or use a number bond to decompose and make the next hundred.

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

- Determine and use the most efficient strategy for solving a given problem and explain his reasoning.
- Solve addition and subtraction problems by using two different strategies.
- Choose between two given strategies and explain why she chose that strategy.

SAMPLE PROBLEM (From Lesson 19)

Solve by using an addition or subtraction strategy. Explain why you chose that strategy.

$$802 - 698 = \underline{104}$$

$$804 - 700 = 104$$

+2	802
+2	698

I noticed that 698 is very close to 700, which is an easy number to subtract. I added 2 to 698 to get to 700. When making a friendlier problem to find the difference, whatever I do to one number I must do to the other. So I also added 2 to 802. Then I had an easier problem to solve, $804 - 700$. Easy! The answer is 104.

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

- Encourage your child to think carefully about the numbers in a given problem before choosing a strategy. Ask her to look for numbers that are close to the next hundred or numbers from which it would be easy to count on. For example, she might notice that counting on is another way to solve the Sample Problem ($802 - 698$, above): $698 + 2 = 700$; $700 + 100 = 800$; $800 + 2 = 802$. By counting on 104, your child is using addition to solve the subtraction problem.
- If your child has not yet mastered certain strategies, encourage him to solve a problem by using a familiar strategy first. Then, present the challenge of solving the same problem by using a strategy he is working to master.
- Before she begins to write, encourage your child to explain the strategy she will use to solve the problem. After she has found a solution, ask her to share another strategy she could have used. Ask her to compare the strategies and explain how they are similar and different. Such comparisons and explanations strengthen place value understanding and the use of math language.