

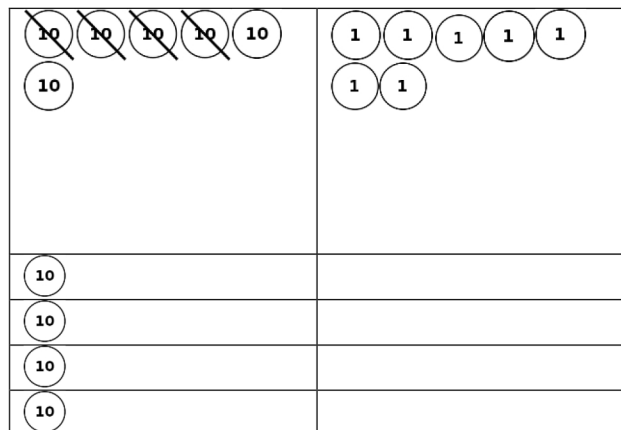
Name \_\_\_\_\_

Date \_\_\_\_\_

1. When you divide 86 by 4, there is a remainder of 2. Model this problem with place value disks. In the place value disk model, how can you see that there is a remainder?

2. Francine says that  $86 \div 4$  is 20 with a remainder of 6. She reasons this is correct because  $(4 \times 20) + 6 = 86$ . What mistake has Francine made? Explain how she can correct her work.

3. The place value disk model is showing  $67 \div 4$ . Complete the model. Explain what happens to the 2 tens that are remaining in the tens column.



4. Two friends share 76 blueberries.
- To count the blueberries, they put them into small bowls of 10 blueberries. Draw a picture to show how the blueberries can be shared equally. Will they have to split apart any of the bowls of 10 blueberries when they share them?
  - Explain how the friends can share the blueberries fairly.
5. Imagine you are drawing a comic strip showing how to solve the problem  $72 \div 4$  to new fourth graders. Create a script to explain how you can keep dividing after getting a remainder of 3 tens in the first step.

## Answer Key

1. Equation accurately modeled; remainder circled
2. Remainder is greater than divisor; explanations will vary.
3. Equation accurately modeled; 2 remaining tens are decomposed into 20 ones
4.
  - a. Picture accurately models division; yes
  - b. Explanations will vary.
5. Answers will vary.