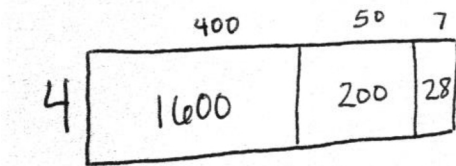Name _____   Date _____

1. Arabelle solved the following division problem by drawing an area model.

a. What division problem did she solve?

b. Show a number bond to represent Arabelle's area model, and represent the total length using the distributive property.

2. a. Solve 816 ÷ 4 using the area model. There is no remainder in this problem.

b. Draw a number bond and use a written method to record your work from (a).

3. a. Draw an area model to solve 549 ÷ 3.

    b. Draw a number bond to represent this problem.

    c. Record your work using the long division algorithm.

4. a. Draw an area model to solve 2,762 ÷ 2.

    b. Draw a number bond to represent this problem.

    c. Record your work using the long division algorithm.

Answer Key

1. a. 1,828 ÷ 4 = 457

   b. Whole: 1,828; parts: 1,600, 200, 28

      (1,600 ÷ 4) + (200 ÷ 4) + (28 ÷ 4) = 400 + 50 + 7 = 457

2. a. 204; area model accurately drawn

   b. Answers will vary.

3. a. 183; area model accurately drawn

   b. Answers will vary.

   c. Algorithm accurately recorded

4. a. 1,381; area model accurately drawn

   b. Answers will vary.

   c. Algorithm accurately recorded