

Name \_\_\_\_\_

16. Aviva started a table showing a division pattern.

$\div$	20	30	40	50
10	2	3	4	5
5	4	3	8	10

### Part A

Complete the table.

Compare the quotients when dividing by 10 and when dividing by 5. Describe a pattern you see in the quotients.

Possible answer: The quotient when dividing by 5 is double the quotient when dividing by 10.

### Part B

Find the quotient,  $a$ .

$$70 \div 10 = a$$

$$a = \underline{7}$$

How could you use  $a$  to find the value of  $n$ ? Find the value of  $n$ .

$$70 \div 5 = n$$

$$n = \underline{14}$$

Possible explanation: To find  $70 \div 5$ , I can double the value of  $a$ . Since  $a = 7$ ,  $n = 7 + 7 = 14$ .

17. Ben needs 2 oranges to make a glass of orange juice. If oranges come in bags of 10, how many glasses of orange juice can he make using one bag of oranges.

5 glasses

18. For numbers 18a–18e, select True or False for each equation.

18a.  $0 \div 9 = 0$        True       False

18b.  $9 \div 9 = 1$        True       False

18c.  $27 \div 9 = 4$        True       False

18d.  $54 \div 9 = 6$        True       False

18e.  $90 \div 9 = 9$        True       False

19. Ellen is making gift baskets for four friends. She has 16 prizes she wants to divide equally among the baskets. How many prizes should she put in each basket?

4 prizes

20. Emily is buying a pet rabbit. She needs to buy items for her rabbit at the pet store.

### Part A

Emily buys a cage and 2 bowls for \$54. The cage costs \$40. Each bowl costs the same amount. What is the price of 1 bowl? Explain the steps you used to solve the problem.

\$7; Possible explanation: I subtracted  $\$54 - \$40$  to get \$14.

Then I divided \$14 by 2.  $\$14 \div 2 = \$7$ , so each bowl cost \$7.

### Part B

Emily also buys food and toys for her rabbit. She buys a bag of food for \$20. She buys 2 toys for \$3 each. Write one equation to describe the total amount Emily spends on food and toys. Explain how to use the order of operations to solve the equation.

$20 + 2 \times 3 = n$ ; Possible explanation: First, I multiply  $2 \times 3$  to

get 6. Then I add 20 to get 26.  $n = 26$ . Emily spends \$26.