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Zero

Mr. Moore baked some cupcakes for his family to share. Unfortunately, he did not remember to bring them, so he had zero cupcakes to share among six people. Use this story to write about the value of 0 ÷ 6.

Check-In: Question 7

- The ticket taker has 100 game tokens to give to the first several families who enter the park. Use any strategy to solve the problem. Be sure to write number sentences to show your answers and to include labels.
 - A. If he gives 4 game tokens to each family that enters the park, how many families will get tokens before he runs out?
 - B. If he gives 2 game tokens to each family, how many families will enter before he runs out?
 - C. How many families will get a token if he gives 1 token to each
 - D. If he gives 0 tokens to each family, how many families will enter the park before he runs out of tokens? Use this story to tell about the value of 100 ÷ 0.

Division Symbols

The symbols in these division sentences mean the same thing:

 $24 \div 6 = 4$ **8.** 16/4 = ?

24/6 = 4

9. 45 ÷ 9 = ?

10. 25/5 = ?

6)24

11. ? 8)64

12. $\frac{?}{5)40}$

13. 35 ÷ 7 = ?

Fact Families

Multiplication and division facts are related. Questions 14-16 will show you what they have in common. The four facts in each question make up a fact family.

Use your Triangle Flash Cards: 5s and 10s.

14. A. $4 \times 5 = ?$ **B.** $5 \times 4 = ?$ **C.** $20 \div 5 = ?$

15. A. $5 \times 9 = ?$ **B.** $9 \times 5 = ?$ **C.** $45 \div 5 = ?$ **D.** $45 \div 9 = ?$

16. A. $6 \times 10 = ?$ **B.** $10 \times 6 = ?$ **C.** $60 \div 10 = ?$ **D.** $60 \div 6 = ?$

D. $20 \div 4 = ?$

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Division in Lizardland

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Division in Lizardland (SG pp. 207–208) Questions 1-16

Number sentences will vary.

I. 7 children; $21 \div 3 = 7$ children

2. 6 cars; $24 \div 4 = 6$ cars

3. Yes: $8 \times 3 = 24$ seats

4.* $\frac{1}{2}$ orange; $3 \div 6 = \frac{1}{2}$ orange

5.* 2 cookies; $6 \div 3 = 2$ cookies

6.* Since there are no cupcakes, each person will get 0 cupcakes.

7. A.* $100 \div 4 = 25$ families

B.* $100 \div 2 = 50$ families

C.* $100 \div 1 = 100$ families

D.* No answer. He will never run out of tokens. An endless amount of people could enter and he would still have the 100 tokens. So $100 \div 0$ does not make sense (it is not defined).

8. 4

9. 5

10. 5

11.8

12. 8

13. 5

14. A. 20

B. 20

C. 4

D. 5

15. A. 45

B. 45

C. 9

D. 5

16. A. 60

B. 60 **C.** 6

D. 10

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Homework (SG p. 209) Questions 1-19

- I. A. 24
 - **B.** 8
 - **C.** 3
 - **D.** 24
- **3. A.** 40
 - **B**. 5
 - **C.** 8
 - **D.** 40
- **5**. 4
- **7.** 10
- **9.** 4
- 11. 6
- **13.** 5
- **15.** 3
- 17. 4 pieces
- 18. 3 people
- 19. Answers will vary. Possible story for Question 5, $8 \div 2$: There were 8 ducks. They swam into 2 equal groups. There were 4 ducks in each group.

2. **A**. 24

B. 6

C. 4

D. 24

B. 9

C. 6

D. 54

6. 9

8. 6

10. 8

12. 0

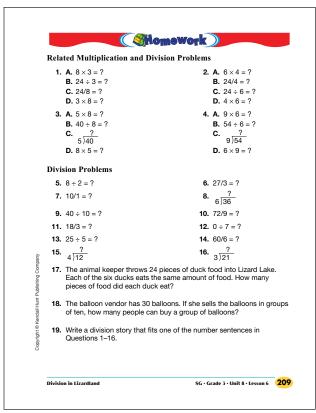
14. 10

16. 7

4. A. 54







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