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Eleven best friends go to the carnival and must find a way to fill all of the seats on each ride before they can whoosh, twirl, and spin their way to fun!

Ages: 6 to 8 years**Interest Level:** 1st to 3rd grade**ATOS Reading Level:** 2.5**Lexile:** 660**ISBN:** 9780064467100**Copyright:** 1997**Genre:** Fiction**Classification:** Picture Story

Divide and Ride

Fill up all the seats on the carnival rides!

Topics: division, remainders

Math Connections:

Use the book *Divide and Ride* to talk about everyday situations that involve division. Ask your child if they have heard of the word remainder. If they are familiar with the term, ask your child to tell you what the word remainder means. If they are not familiar with the word, explain that a remainder is the number left over when one number does not divide evenly into another number. You might provide this example visually: If there are 10 children going on a trip (draw 10 children), how many cars are needed to drive them if five children can fit into each car (circle groups of 5 children)? In this case there is no remainder because each car can take five children which means all ten have a ride. Ask your child how this would change if each car could only take three children. Draw ten children again and ask your child to circle groups of three children. Three divides into ten, three times with one left over—there is a remainder of one; one child is left without a ride. In this case it would not be reasonable to say that three cars are needed with one left over—you'd need four cars so everyone would have a ride. Talk about familiar situations where a large group is divided into smaller groups, for example breaking into sports teams, breaking into smaller lunch groups, dividing treats evenly among friends, etc. Talk about situations where a remainder is appropriate—for example an extra slice of pizza could be divided among friends or saved for later. The way you think about remainders depends on the context of the situation.

Extension Questions:

1. What are some numbers of whole cookies you could share equally among 5 friends with no broken cookies and no cookies left over? What are some examples of numbers of whole cookies that cannot be shared evenly among 5 friends?
2. Are there any numbers that can only be divided evenly one way? (Divided evenly means there is no remainder.) Twelve can be divided evenly in many ways: 12 divided by 2 equals 6; 12 divided by 4 equals 3; and so on. But what about 11? How many different ways can you divide 11 evenly? Are there other numbers like 11? Are there other numbers like 12?

EARLY MATH PROJECT LITERATURE REVIEW

Vocabulary for Building Math Concepts	divide, divided by, eleven, five, four, fourteen, left over, per, three, two
Vocabulary for Extending Math Concepts	remainder, divides evenly, prime numbers
Vocabulary for Reading Comprehension	carnival, chug, jolt, slosh, yikes

Early Math Project Resources:

[Design and Ride](#) (English)

[Diseña y pasea](#) (Spanish)

Online Resources:

[Math Solutions Lesson based on Divide and Ride](#)

Age Level	Related Preschool Foundations and CA State Standards
Infant-Kindergarten	Not applicable.
Grade 1	Operations and Algebraic Thinking 1.OA.1 , 1.OA.2 Represent and solve problems involving addition and subtraction. (As a foundation for division)
Grade 2	Operations and Algebraic Thinking 2.OA.1 Represent and solve problems involving addition and subtraction. 2.OA.3 , 2.OA.4 Work with equal groups of objects to gain foundations for multiplication.
Grade 3	Operations and Algebraic Thinking 3.OA.1 , 3.OA.2 , 3.OA.3 , 3.OA.4 ; 3.OA.5 , 3.OA.6 Understand properties of multiplication and the relationship between multiplication and division. 3.OA.7 Multiply and divide within 100.

Related Books: *The Doorbell Rang* by Pat Hutchins, *A Remainder of One* by Elinor J. Pinczes, *One Hundred Hungry Ants* by Elinor J. Pinczes, *Bean Thirteen* by Matthew Mc Elligott, *Spaghetti and Meatballs for All!* by Marilyn Burns

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