Classroom Seating Plan

2nd Grade Math Project · School & Community

Grade 2 · Advanced

Name: _____ Date: _____ Class: _____

The Challenge

Our class is hosting a reading party! Plan partners for games and set up the chairs in neat rows.

You will make: Seating Plan

I can…

- I can tell if a group up to 20 is odd or even by making pairs.
- I can write an even number as two equal addends.
- I can find the total in an array and write a repeated-addition equation.

Materials

- Pencil
- Counters
- Grid paper

Steps

1. Part 1: Partners
2. Part 2: Doubles
3. Part 3: Chair Arrays
4. Part 4: Array Challenge
5. Check your work and share your seating plan.

Part 1: Partners

Each group of children needs partners.

1. A group has 19 children. Can everyone have a partner? Is 19 odd or even?

2. A group has 16 children. Can everyone have a partner? Is 16 odd or even?

Part 2: Doubles

Write each even number as two equal addends.

3. 16 = ___ + ___

4. 18 = ___ + ___

Part 3: Chair Arrays

Chairs are set in 5 rows with 5 chairs in each row.

5. How many chairs are there?

6. Write a repeated-addition equation for the rows.

7. Write a repeated-addition equation for the columns.

Part 4: Array Challenge

The class has 12 chairs. Rows can have up to 5 chairs and there can be up to 5 rows.

8. List every array you can make with all 12 chairs.

9. Is 12 odd or even? How does an array with 2 equal rows show this?

10. Mia says 13 chairs can make an array with 2 equal rows. Explain why not.

Extension Challenge

Two more rows of the same size are added. How many chairs now?

How your project will be scored

Learning target	4 Exceeds	3 Meets	2 Approaching	1 Beginning
I can tell if a group up to 20 is odd or even by making pairs.	Correct and complete; explains how	Mostly correct	Partly correct	Not yet
I can write an even number as two equal addends.	Correct and complete; explains how	Mostly correct	Partly correct	Not yet
I can find the total in an array and write a repeated-addition equation.	Correct and complete; explains how	Mostly correct	Partly correct	Not yet
I can explain my thinking with pictures, numbers and words.	Clear for every part	Clear for most parts	Some explanation	Little explanation
My seating plan is complete and matches my math.	Complete, neat, accurate	Complete	Partly complete	Not complete