Teaching guide

Maya & Lumi’s Garden Mission

- Identify rows in a rectangular array.
- Find a total by adding equal row amounts.
- Write an equation with one equal addend per row.

A pencil, 20 counters (beans or buttons) and the 3 student pages. No robot kit is needed.

1. **Connect · 3 min**
   Read the story. Make 2 equal rows of 3 counters. Slide a finger across a row; explain that a row goes across.
2. **Model · 5 min**
   Use page 1. Count 2 rows and 3 in each row. Say 3 + 3 = 6, touching one row per addend. Multiplication symbols are not required.
3. **Practice together · 7 min**
   Use page 2: 3 rows of 4. Record 4 + 4 + 4 = 12. Ask why the equation has three addends.
4. **Create · 7 min**
   Use page 3. Draw 3 equal rows of 4, write the equation and total. Use counters before drawing if needed.
5. **Check independently · 3 min**
   Ask the child to solve 4 rows of 5 and explain Lumi’s mistake. Revisit equal rows if they add the row number to the row size.

Support: start with counters in 2 rows of 2. Read instructions aloud and cover other rows to count one row.

Challenge: rearrange 12 counters as 4 rows of 3. Write 3 + 3 + 3 + 3 = 12. Explain why the total stays the same.

Success looks like: equal row sizes, one addend per row, a correct total and an explanation connecting the picture to the equation. If the child counts one by one, model adding one complete row at a time.

At home: work side by side for the first example, then let your child show you the next. Split into two short sessions if needed.

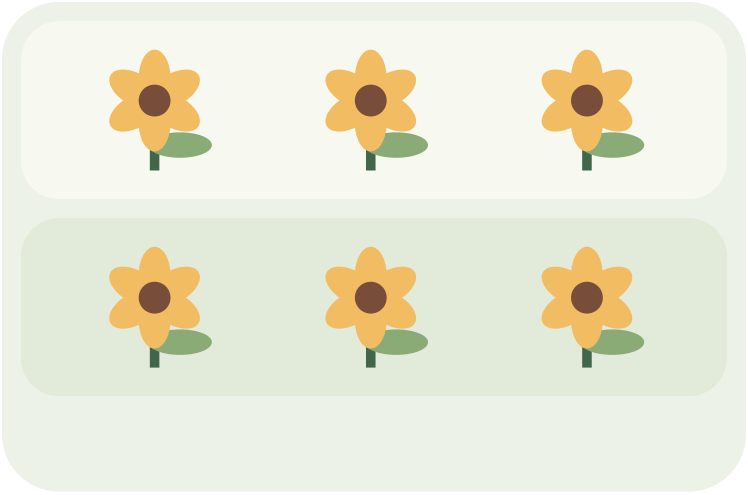
CCSS.Math.Content.2.OA.C.4 · US Grade 2. Focus: repeated addition in rectangular arrays up to 5 rows and 5 columns. This practice lesson does not assess every aspect of the standard.

Free for your classroom or homeschool. Share the starter-page link; do not resell or rehost the files.

Name: _____ Date: _____

Count the garden

Count the rows and the flowers in one row. Write one equal addend for each row.



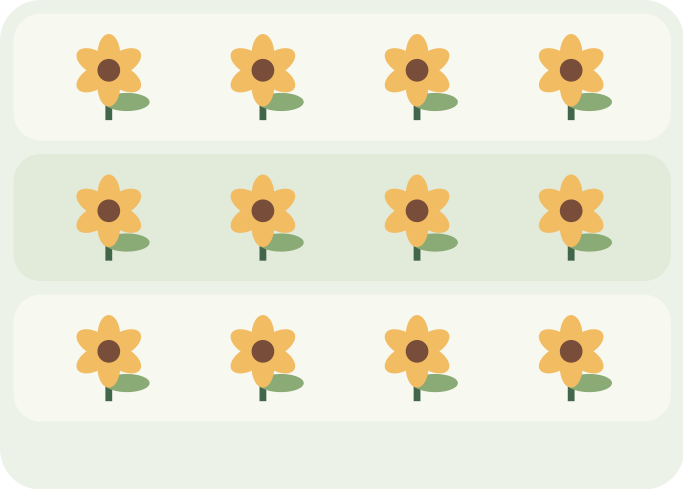
Rows	Flowers per row	Flowers altogether

Equal-addend equation

Name: _____ Date: _____

Help the garden grow

Lumi planted a bigger garden! Complete the equation. Explain how it matches the picture.



Rows

Flowers per row

Flowers altogether

Equal-addend equation

How does your equation match the picture?

Name: _____ Date: _____

Design your garden

Draw 3 rows of 4 flowers. Keep the rows equal. Write an equation for your garden.

Draw your flowers here.

Equal-addend equation

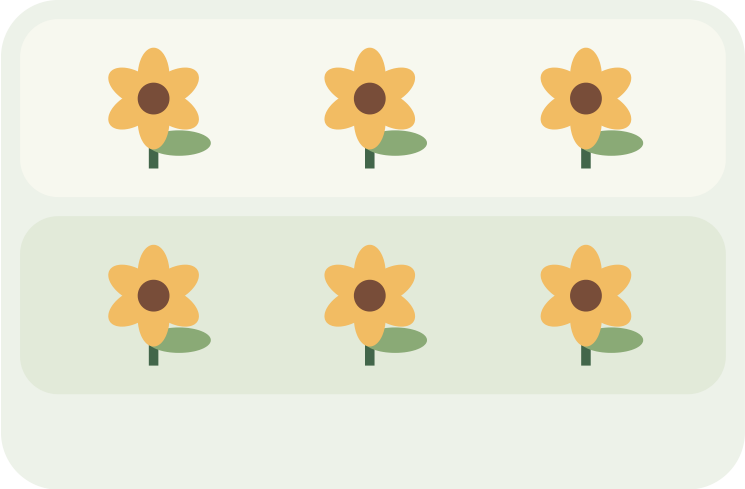
Lumi says 2 rows of 3 means 2 + 3 = 5. Is Lumi correct? Draw or explain.

Finish on your own: 4 rows of 5 flowers. Write an equal-addend equation and the total.

Name: _____ Date: _____

Count the garden

Count the rows and the flowers in one row. Write one equal addend for each row.



Rows	Flowers per row	Flowers altogether
2	3	6

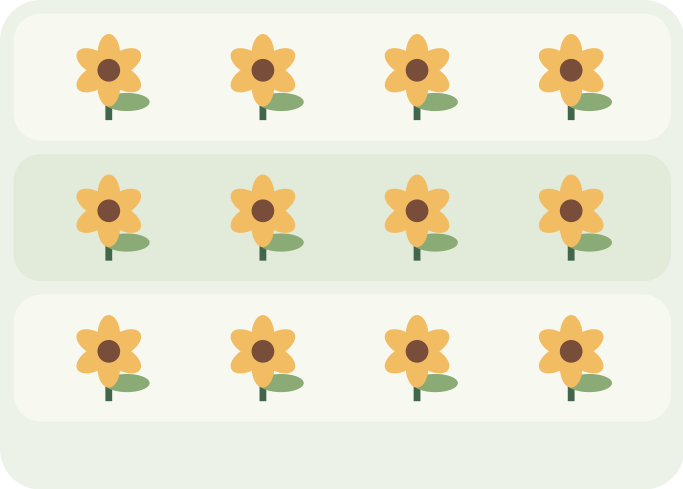
Equal-addend equation

3 + 3 = 6

Name: _____ Date: _____

Help the garden grow

Lumi planted a bigger garden! Complete the equation. Explain how it matches the picture.



Rows	Flowers per row	Flowers altogether
3	4	12

Equal-addend equation

4 + 4 + 4 = 12

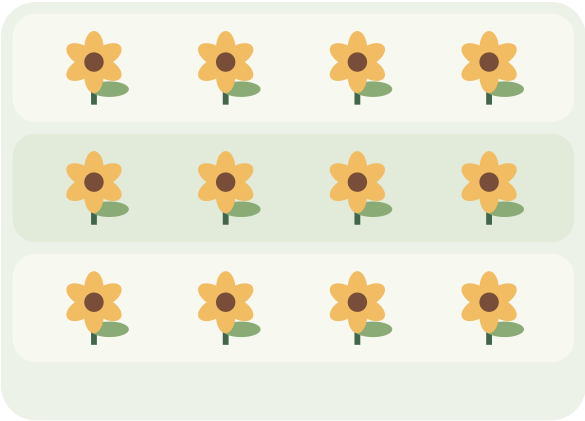
How does your equation match the picture?

Each 4 counts one of the 3 rows.

Name: _____ Date: _____

Design your garden

Draw 3 rows of 4 flowers. Keep the rows equal. Write an equation for your garden.



Equal-addend equation

4 + 4 + 4 = 12

Lumi says 2 rows of 3 means 2 + 3 = 5. Is Lumi correct? Draw or explain.

No. Use 3 + 3 = 6; 2 + 3 does not count every flower.

Finish on your own: 4 rows of 5 flowers. Write an equal-addend equation and the total.

5 + 5 + 5 + 5 = 20