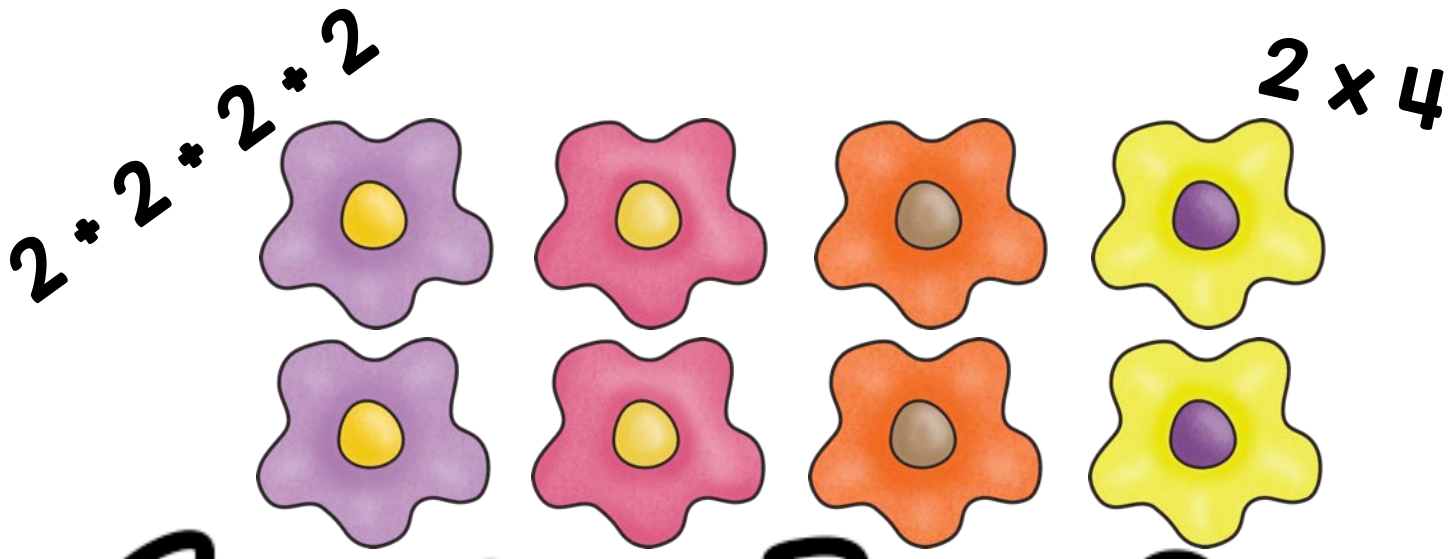
Multiplication Arrays Flower Pots & Orchards

Students explore building arrays and explaining their thinking in the patterns they discover



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Teacher Notes

This packet poses a problem to students: the need to arrange flower pots for display in a flower nursery. The flower pots can only be arranged in a rectangle or square (no L-shapes).

Students start with arranging the numbers 6, 12, and 24. Students build the array with manipulatives (teacher provided or cut out flowers). Print the flowers at 50% to fit more on a page when cut out.

As students move through this unit, they reflect on the math and patterns through class discussions and in writing.

Also included in the until are extension activities, games, and problems that could be used for assessment.

This unit pairs nicely with my Partitioning Rectangles unit.



Making arrays with 6, 12, and 24

Model how to arrange 4 flower pots in a rectangle or square using manipulatives or flowers.

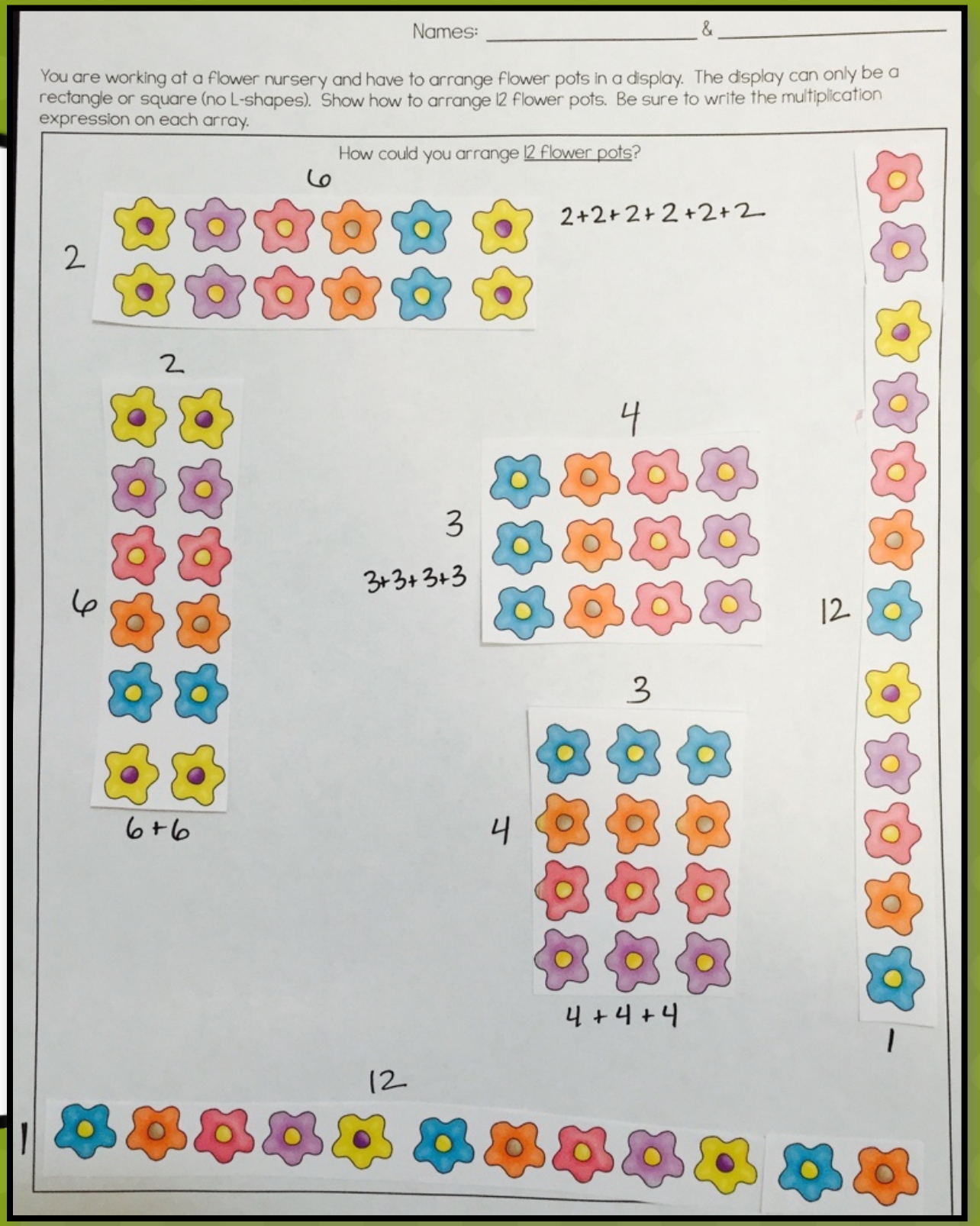
Model how to draw a circle for each flower in an array pattern. Show students how to write the multiplication expression on the array (rows x columns).

Pair students together and have them explore making arrays for 6, 12, and 24 flower pots.

When students have found all the different ways that they can, have them write a letter to the manager of the nursery explaining which arrangement is the best. Remind them to explain why it is the best.



Sample Arrays



Extension Activities

Use the following activities to extend students' thinking about arrays. Choose activities that are appropriate for your grade level.

- Draw an array and write about it
- Draw an array and write a problem to go with it
- Problem Solving: Henry's Orange Farm 1
- Problem Solving: Henry's Orange Farm 2 (to be used with #1)
- Problem Solving: Isabella's Plum Orchard

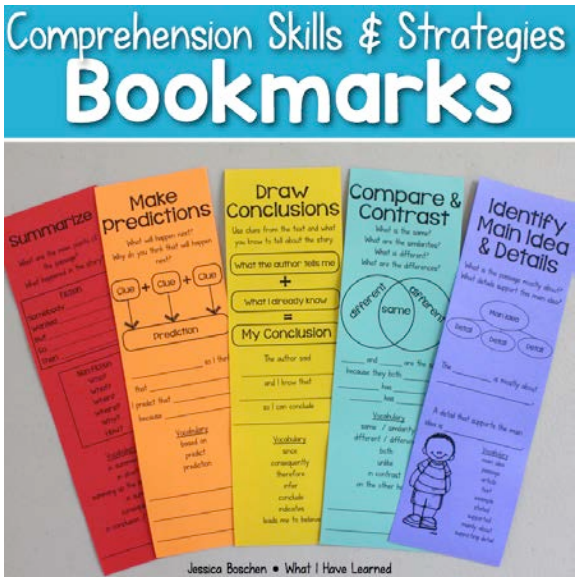


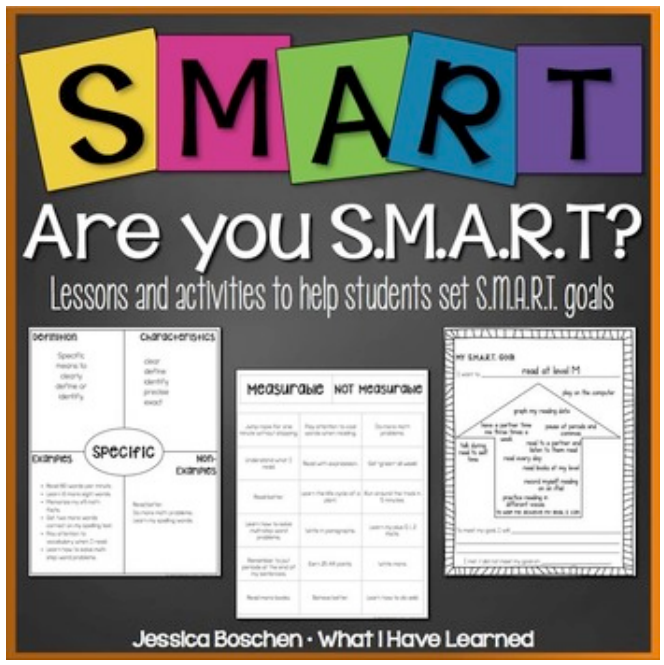
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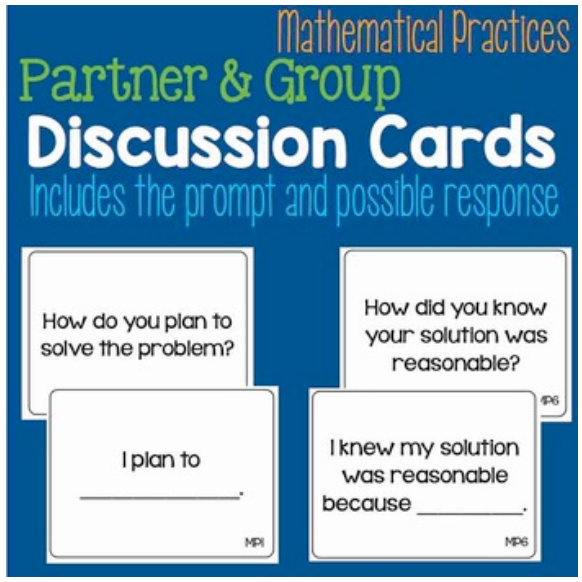
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