

Fractions in a School Garden

Grades 3-5 Name: _____ Date: _____

Context and evidence

A rectangular garden is divided into 12 equal plots. Four plots grow herbs, three grow tomatoes, two grow flowers and three are unplanted.

Your investigation

1. Write a fraction for each use of the garden.

2. Order the four fractions from least to greatest and justify with a model.

3. What fraction is planted? Give an equivalent fraction if possible.

4. The class wants flowers in one quarter of the garden. How many plots should contain flowers?

5. Redesign the 12 plots so half grow food, one quarter grow flowers and the rest support pollinators. Check the total.

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Learning goals

Reason accurately, use evidence, show a method and communicate a defensible conclusion.

Response guidance

Accept different layouts when the fractions total one whole. Require equal-size plots and reasoning for comparisons.

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Extension and assessment

Ask learners to compare methods, revise one response after feedback and identify the evidence that most changed their thinking.