

MY Homework

Lesson 7

Partition Shapes

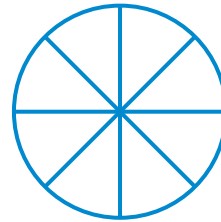
Homework Helper



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Cassie made a pie to take to the family reunion. If she wants to partition the pie into 8 equal pieces, what fraction of the pie's area will each piece represent?

1 The circle represents the pie's area.



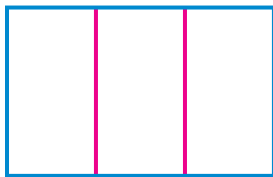
2 Partition the circle into 8 equal sections.

The fraction of the pie's area that each piece represents is $\frac{1}{8}$.

Practice Sample partitions: 1-4

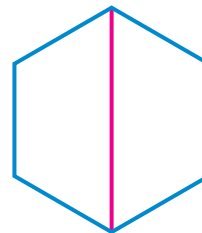
Partition each figure as indicated. Then write the unit fraction of the figure's area that each equal section represents.

1. 3 equal sections



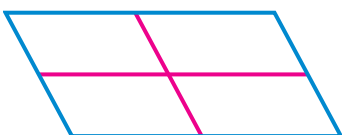
$\frac{1}{3}$

2. 2 equal sections



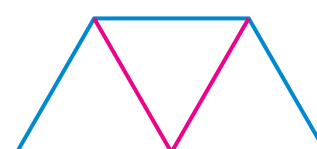
$\frac{1}{2}$

3. 4 equal sections



$\frac{1}{4}$

4. 3 equal sections

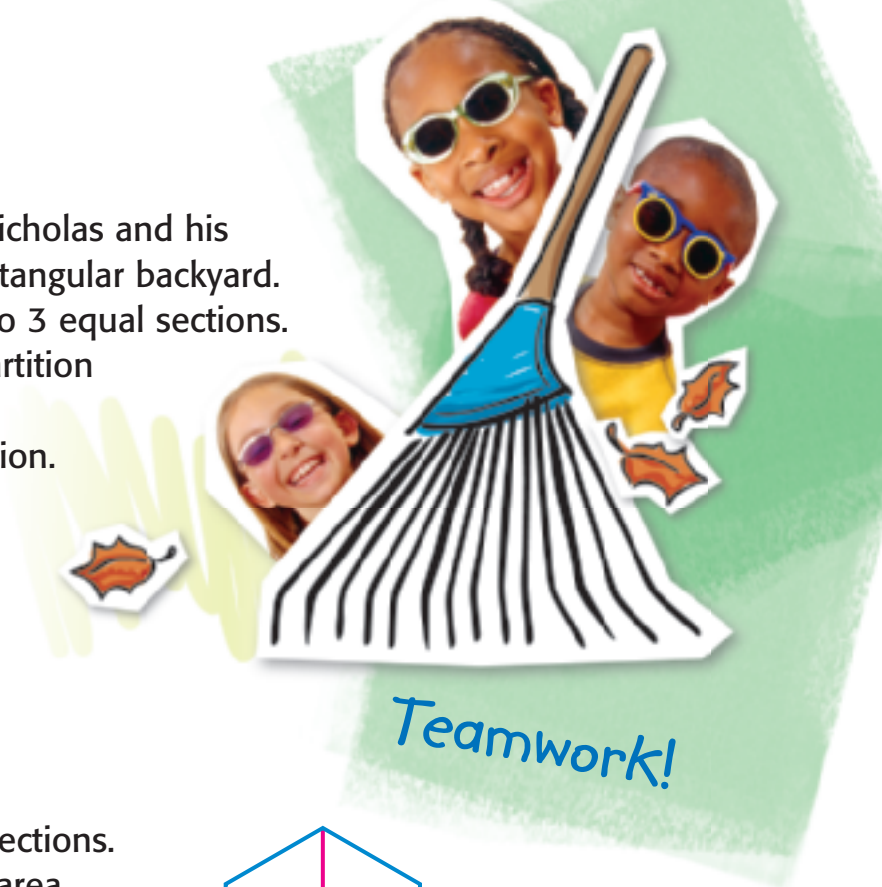
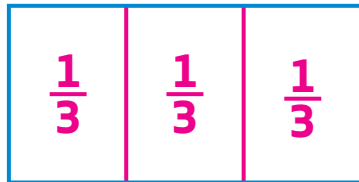


$\frac{1}{3}$



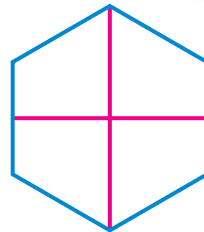
Problem Solving

5. **Mathematical PRACTICE** **Use Math Tools** Nicholas and his 2 friends are raking leaves in his rectangular backyard. They decide to partition the yard into 3 equal sections. Each friend will rake one section. Partition the rectangle into 3 equal sections. Label each section with its unit fraction.



6. Partition the hexagon into 4 equal sections. What unit fraction of the hexagon's area does each section represent?

Sample answer: $\frac{1}{4}$



7. **Mathematical PRACTICE** **Reason** Draw a circle. Partition the circle into six equal sections. What unit fraction of the total area is each section?

$\frac{1}{6}$; See students' drawings.

Test Practice

8. For art class, each student was given a piece of paper in the shape of a rectangle. Mrs. Brucker asked the students to partition the paper into 8 equal sections. What unit fraction of the paper's area will each section have?

(A) $\frac{1}{2}$

(C) $\frac{1}{6}$

(B) $\frac{1}{3}$

(D) $\frac{1}{8}$