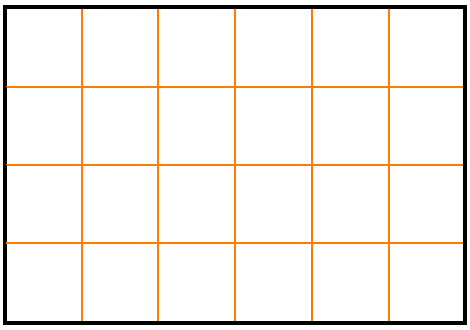
Equivalent Fractions
Extend Your Learning
Answers and Explanations

Kennedy made a cake for her mom's birthday and cut it into 24 equal pieces. Kennedy's mom ate two pieces of cake. Her sister ate three pieces of cake and her brother ate four pieces of cake.

1. This rectangle represents Kennedy's cake. Show one way Kennedy might have cut the cake to get 24 equal pieces.



The diagram shows one way to cut the cake. This is not the only correct answer.

2. Describe how much cake each person ate using **at least two** different fractions.

What fraction of the cake did Kennedy's mom eat?

$\frac{2}{24}$ (2 out of the 24 pieces) or $\frac{1}{12}$ (one half of a column)

What fraction of the cake did Kennedy's sister eat?

$\frac{3}{24}$ (3 out of the 24 pieces) or $\frac{1}{8}$ (one half of a row)

What fraction of the cake did Kennedy's brother eat?

$\frac{4}{24}$ (4 out of the 24 pieces) or $\frac{2}{12}$ (two half-columns) or $\frac{1}{6}$ (one column)

3. How many pieces of cake did Kennedy eat if she ate one fourth of the cake?
The cake is divided into four equal rows, so each row is one fourth. One row is 6 pieces, so Kennedy ate six pieces.

4. Kennedy's grandma ate just one piece of cake. What fraction of the cake is left after everyone is finished?
If you add the number of pieces of cake each person ate, you get 16 pieces of cake.
$2 + 3 + 4 + 6 + 1 = 16$
The cake was cut into 24 pieces so there are 8 pieces left.
$24 - 16 = 8$
You can represent the amount of cake left with the following four fractions:
$\frac{8}{24}$ (8 of the 24 pieces) or $\frac{4}{12}$ (four half-columns) or $\frac{2}{6}$ (two columns) or $\frac{1}{3}$ (two columns)