Multiplying Fractions 2

Information

Common core icons

This icon indicates a slide where the Standards for Mathematical Practice are being developed. Details of these are given in the Notes field.

Slides containing examples of mathematical modeling are marked with this stamp.

This icon indicates an opportunity for discussion or group work.

The **Standards for Mathematical Practice** outlined in the Common Core State Standards for Mathematics describe varieties of expertise that mathematics educators at all levels should seek to develop in their students.

These are:

1) Make sense of problems and persevere in solving them.

2) Reason abstractly and quantitatively.

3) Construct viable arguments and critique the reasoning of others.

4) Model with mathematics.

5) Use appropriate tools strategically.

6) Attend to precision.

7) Look for and make use of structure.

8) Look for and express regularity in repeated reasoning.

This icon indicates that the slide contains activities created in Flash. These activities are not editable.

This icon indicates teacher's notes in the Notes field.

Fraction × fraction

Andy made a pie for a family party. After the party, there were $^{2}/_{5}$ of pie left. If Andy ate $^{1}/_{3}$ of this, how much of the whole pie did he eat?

The problem is asking us to find $^{1}/_{3}$ of $^{2}/_{5}$.

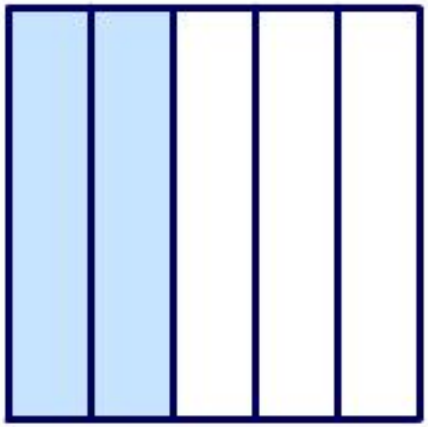
$$\frac{2}{5} \times \frac{1}{3} = \frac{2}{15}$$

Multiply the numerator by the numerator and the denominator by the denominator.

Andy ate $^{2}/_{15}$ of the pie.

A part of a part

What happens when you multiply a fraction by a fraction?



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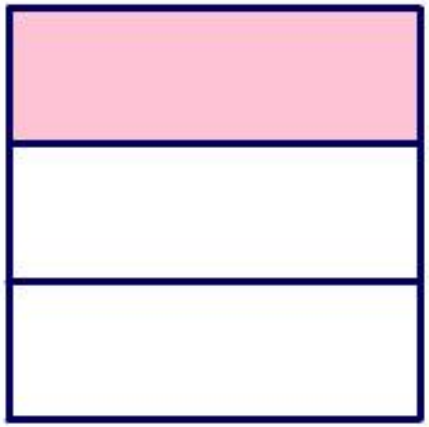

$\frac{2}{5}$ × $\frac{1}{3}$

Estimating products

Use the drop-down menus to estimate the product of each calculation.

Press **start** to begin.

start

What are some rules about multiplying fractions?

Fractions and area

Tom's cat carrier is $1\frac{3}{4}$ feet long and $1\frac{1}{4}$ feet wide. He wants to find the area of the carrier's base to decide if his cat has enough room. How could he find the area of the carrier's base?

Real-life fractions

Q1/5 There is $^{3}/_{4}$ of a pizza left. If Charlie eats $^{1}/_{3}$ of it, how much of the whole pizza did he eat?

$\frac{1}{3}$ of the pizza

$\frac{1}{4}$ of the pizza

$\frac{1}{12}$ of the pizza