
Mmm … doughnuts
adding fractions with like denominators
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Let’s say you have a doughnut

Yum!

and you eat ½ of it

Now you only have ½ a doughnut

Your cousin has 1 ½ doughnuts, and you're feeling kind of full, so you give her your half of a doughnut

1 ½ + ½ = 2

What if both you and your cousin had 1 ½ doughnuts?

1 ½ + 1½ = 3


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What's a like denominator ?

"Like denominators"

means the bottom numbers in the fractions you are adding are the same, like this:

- ¼ + ¾

and they are NOT like this

2/3 + 3/5

Adding fractions

Fractions that have LIKE denominators are added exactly the same as whole numbers

$1 + 1 = 2$

$\frac{1}{2} + \frac{1}{2} = \frac{2}{2}$

Fractions that equal whole numbers

Whenever the numerator (top) and denominator (bottom) are equal, the fraction equals 1

$$\frac{4}{4} = 1$$

$$\frac{9}{9} = 1$$

Fractions that equal 1, in doughnuts

½ + ½ = $^{2}/_{2}$ = 1

WHAT ARE MIXED NUMBERS?

and how to add them

$1\frac{2}{3}$

$6\frac{4}{7}$

$3\frac{2}{3}$

A mixed number

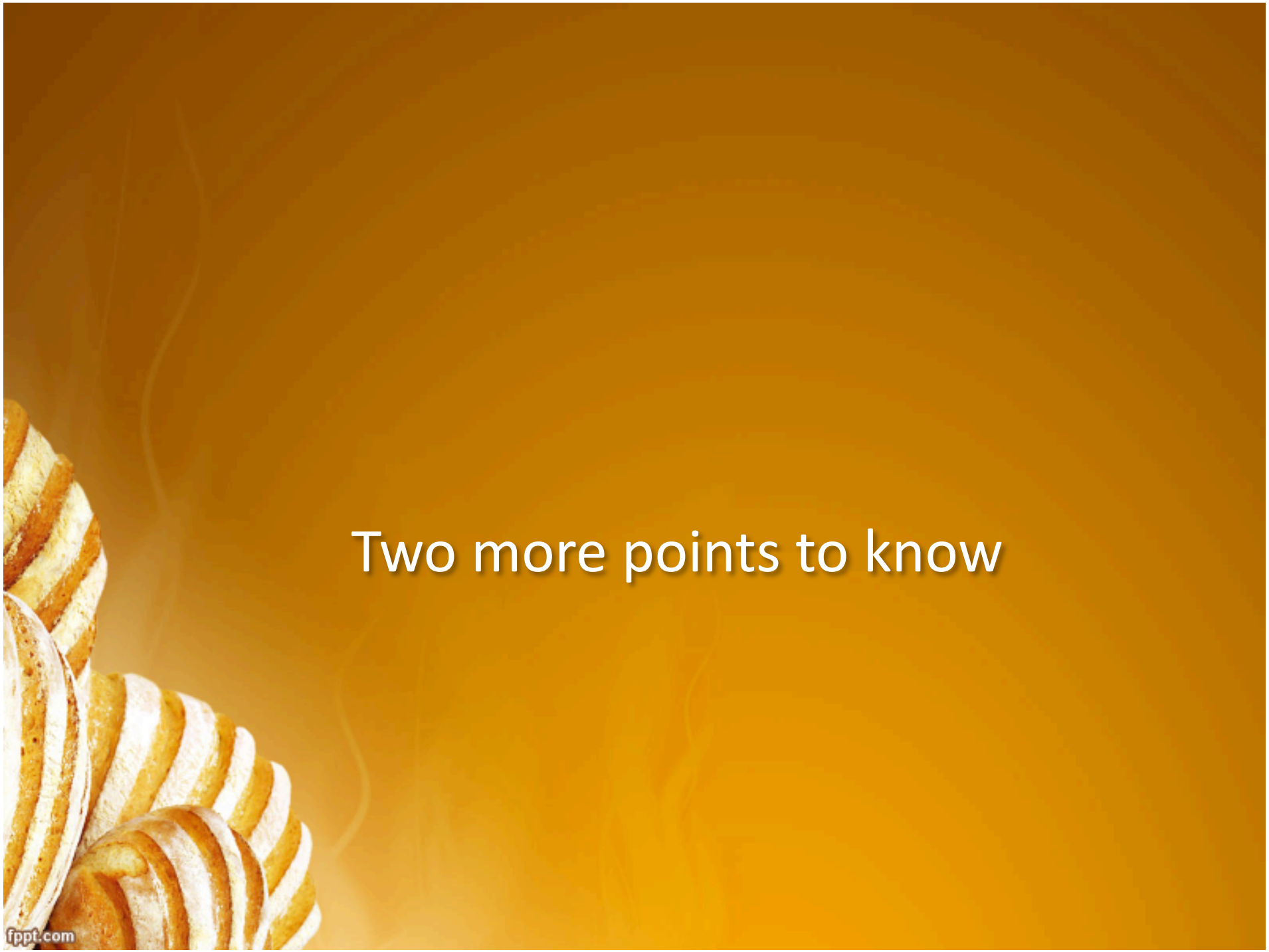
includes a whole number and a fraction

How to add mixed numbers

$1\frac{1}{3} + 2\frac{2}{3}$

1. Add the fractions $\frac{1}{3} + \frac{2}{3} = 1$
2. Add the whole numbers 1+2 = 3
3. Add your results from the first two steps 1 +3 = 4

$1\frac{1}{3} + 2\frac{2}{3} = 4$


Two more points to know
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You can switch the steps around and it still works …. $1\frac{1}{3} + 2\frac{2}{3}$

1. Add the whole numbers 1+2 = 3

2. Add the fractions $\frac{1}{3} + \frac{2}{3} = 1$

3. Add your results from the first two steps 3 +1 = 4

$1\frac{1}{3} + 2\frac{2}{3} = 4$

Still

SOMETIMES THE MIXED NUMBERS ADD UP TO ANOTHER MIXED NUMBER

It doesn’t matter. You still find the answer the same way

Sometimes the fractions add up to a mixed number

$1\frac{1}{3} + 1\frac{1}{3}$

1. Add the fractions $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$

2. Add the whole numbers 1+1 = 2

3. Add your results from the first two steps $\frac{2}{3} + 2 = 2\frac{2}{3}$

Mixed numbers, in doughnuts

Your doughnuts = **$1\frac{1}{3}$**

Cousin's doughnuts = **$1\frac{1}{3}$**

$1\frac{1}{3} + 1\frac{1}{3} = 2\frac{2}{3}$