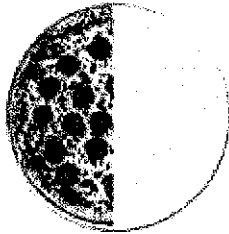


Fractions

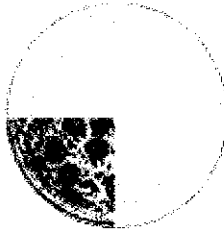
A fraction is a part of a whole

Slice a pizza, and you will have fractions:



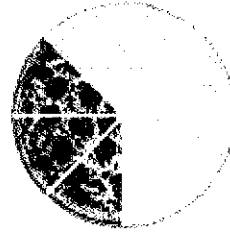
$\frac{1}{2}$

(One-Half)



$\frac{1}{4}$

(One-Quarter)



$\frac{3}{8}$

(Three-Eighths)

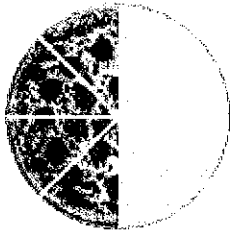
The top number tells how many slices you **have**

The bottom number tells how many slices the pizza was **cut into**.

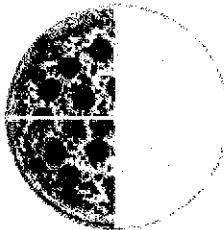
Equivalent Fractions

Some fractions may look different, but are really the same, for example:

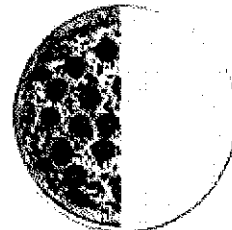
$\frac{4}{8}$ = $\frac{2}{4}$ = $\frac{1}{2}$
(Four-Eighths) Two-Quarters (One-Half)



=



=



It is usually best to show an answer using the simplest fraction ($\frac{1}{2}$ in this case). That is called **Simplifying**, or **Reducing** the Fraction

Numerator / Denominator

We call the top number the **Numerator**, it is the number of parts you have.

We call the bottom number the **Denominator**, it is the number of parts the whole is divided into.

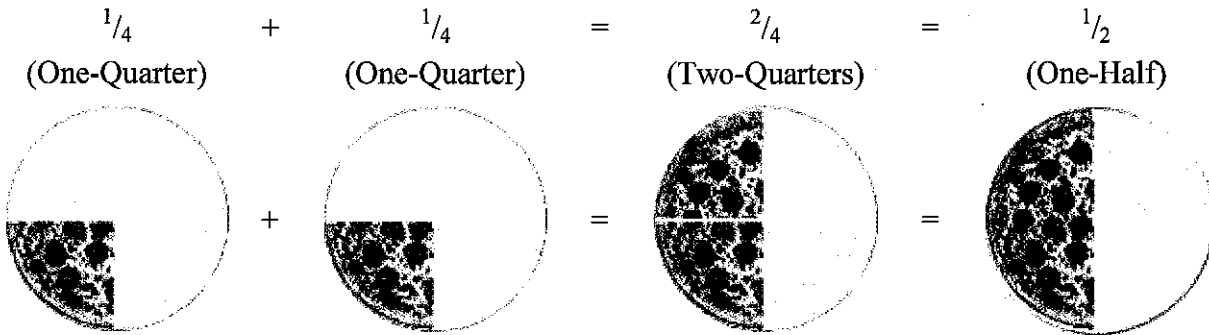
Numerator

Denominator

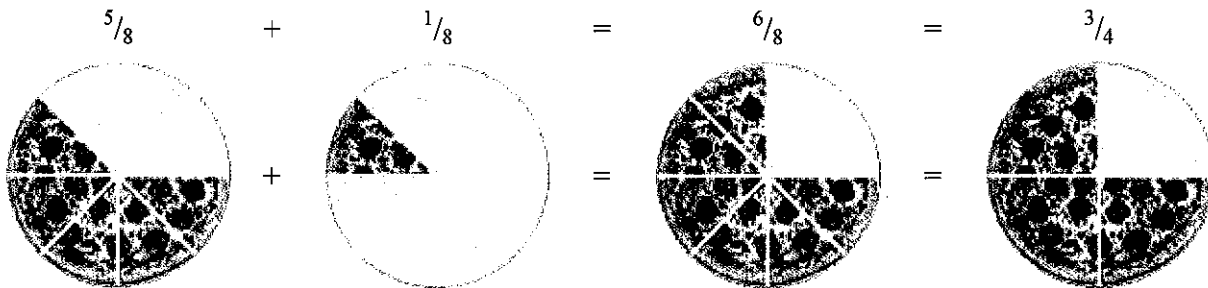
You just have to remember those names! (If you forget just think "Down"-ominator)

Adding Fractions

You can add fractions easily if the bottom number (the *denominator*) is the same:

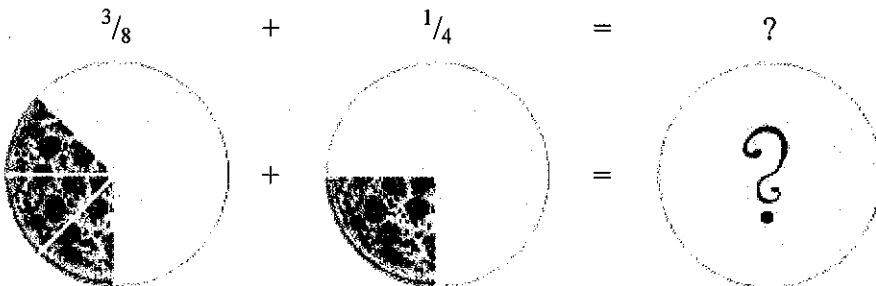


Another example:



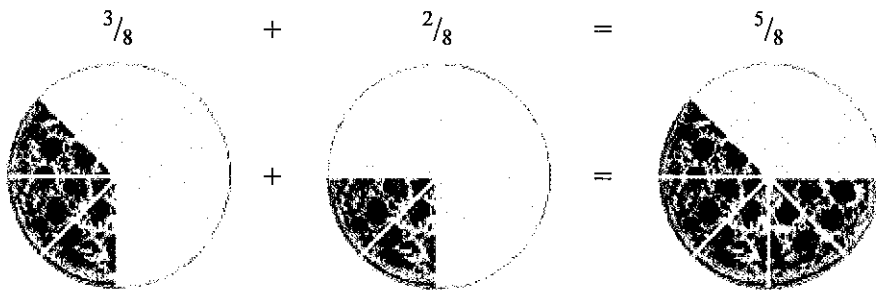
Adding Fractions with Different Denominators

But what if the **denominators** (the bottom numbers) are not the same? As in this example:



You must *somehow* make the denominators the same.

In this case it is easy, because we know that $\frac{1}{4}$ is the same as $\frac{2}{8}$:



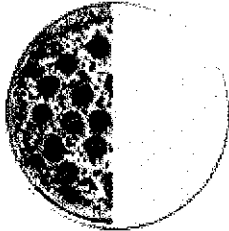
But it can be harder to make the denominators the same, so you may need to use one of these methods (they both work, use whichever you prefer):

- Least Common Denominator, or
- Common Denominator

Fractions

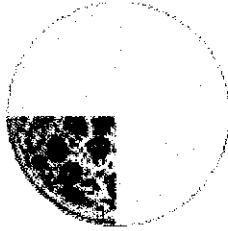
A fraction is a part of a whole

Slice a pizza, and you will have fractions:



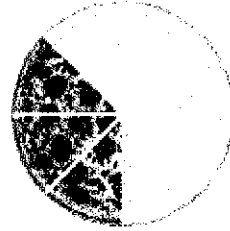
$\frac{1}{2}$

(One-Half)



$\frac{1}{4}$

(One-Quarter)



$\frac{3}{8}$

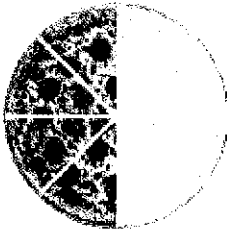
(Three-Eighths)

The top number tells how many slices you **have**
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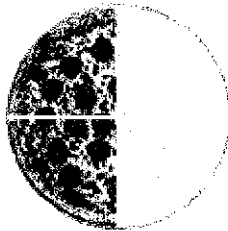
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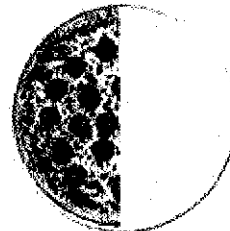
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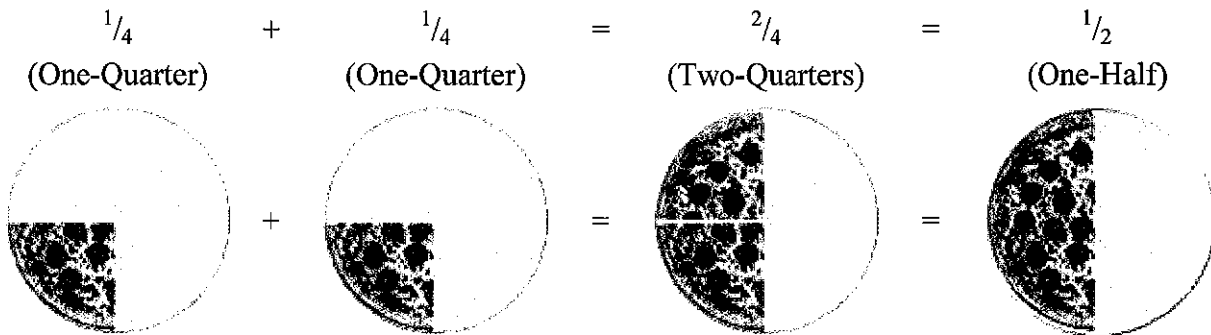
Numerator

Denominator

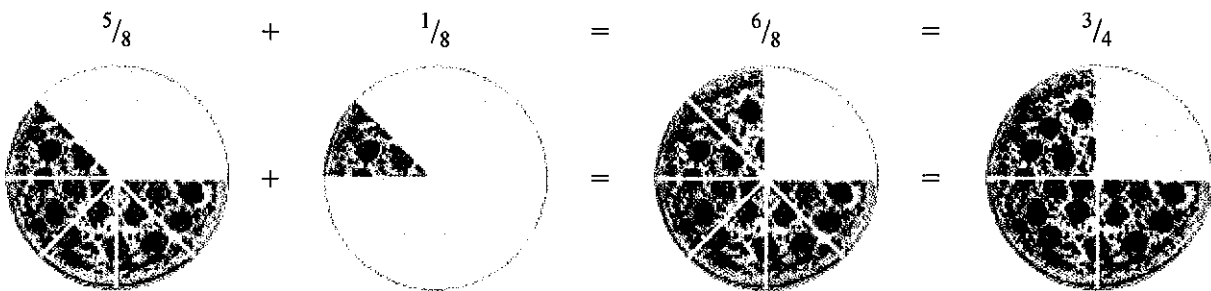
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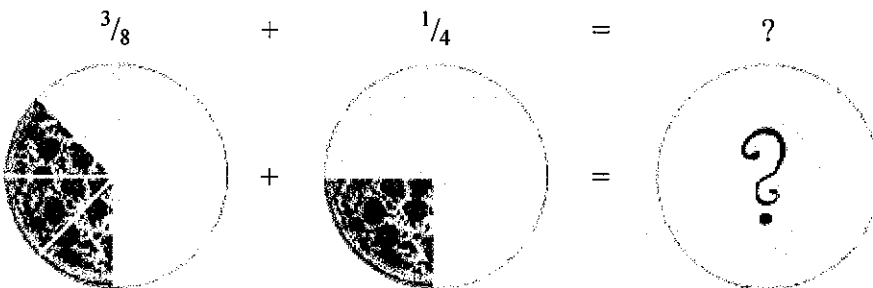


Another example:



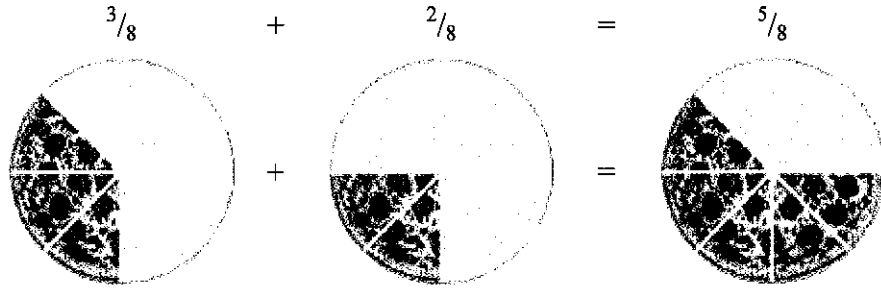
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