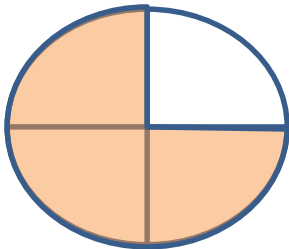


$$\frac{2}{4}$$

3
4

August, 2012



$$\frac{10}{10}$$

[illegible]

Did you know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole?

- A fraction is a type of ratio. A ratio compares two (or more) numbers or quantities using division.
- Fractions can be used to describe a number less than one, equal to one, or more than one whole amount or set.
- Fractions are used in our lives every day. We use fractions to cook, to share, to measure, to eat, to count money, tell time, to calculate a grade, to compete, and much much more.



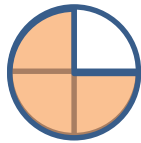
A+



I just thought you'd like to know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole.

Did you know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole?

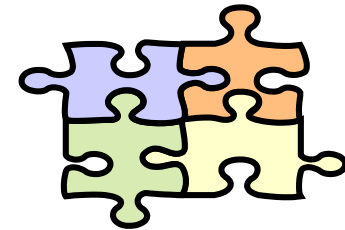
- A fraction has a numerator and a denominator. These are separated by a fraction bar that represents division.



$$\frac{3 \text{ numerator}}{4 \text{ denominator}}$$

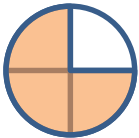
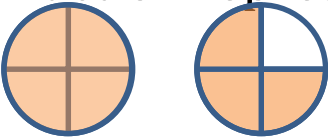
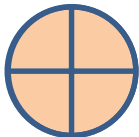
← The fraction bar means divided by (÷)

- The numerator is the “counting number” on top of the fraction bar. It tells you the number of equal parts being considered.
- The denominator names the “type of parts” and is down below the fraction bar. It tells you how many equal parts make one set or one whole amount.
- The fraction of blue puzzle pieces in this set is... $\frac{1}{4}$.



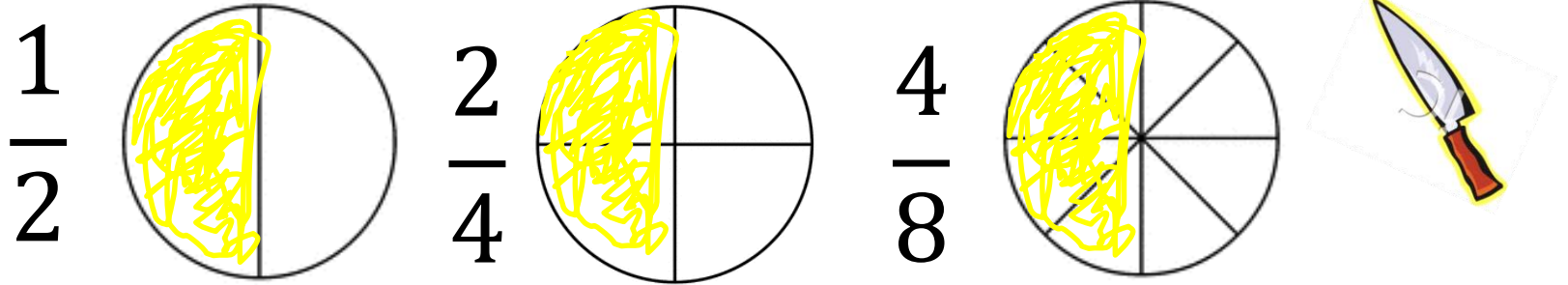
I just thought you'd like to know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole.

Did you know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole?

- A **fraction** can represent an amount more than one, less than one, or exactly 1.
- A **proper fraction** is a number between 0 and 1 such as $\frac{3}{4}$. 
- An **improper** fraction represents a number greater than 1 such as $\frac{7}{4}$. 
- $\frac{7}{4}$ can also be written as the **mixed number** $1\frac{3}{4}$.
- $\frac{4}{4}$ is equivalent to one whole, and is an **equivalent form of 1**. 

I just thought you'd like to know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole.

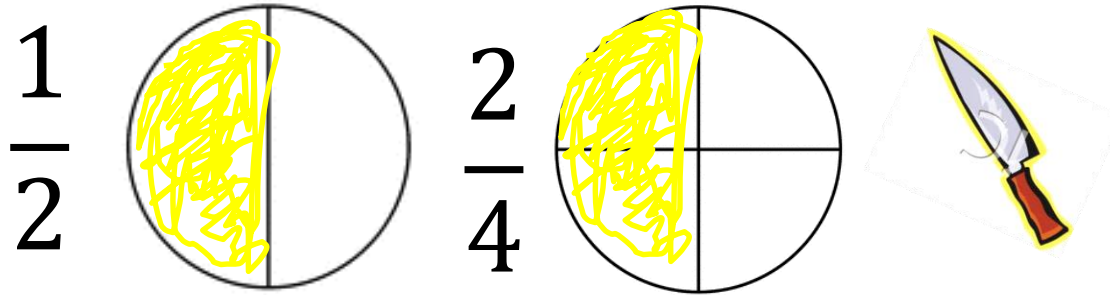
Did you know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole?



- **These equivalent fractions** show the same amounts.
- If a cake with lemon frosting on half of it is sliced into more pieces, the amount of frosting on the cake stays the same.
- The fractions of how much each cake has icing are the same, but have different names such as one-half, two-fourths, and four-eighths.
- One-half $\frac{1}{2}$ is the simplest fraction form above, since the numerator and denominator have no common prime factors. $\frac{2}{4}$ and $\frac{4}{8}$ are equivalent to one-half $\frac{1}{2}$.

I just thought you'd like to know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole.

Did you know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole?

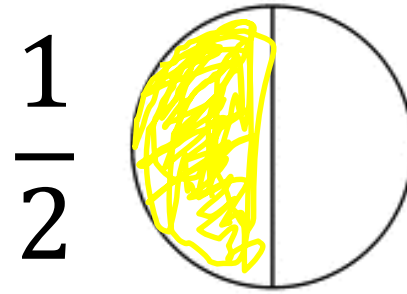
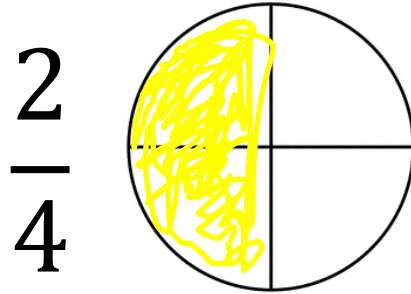


- To change a fraction into an **equivalent fraction** that is the same but has a different name, you can multiply by an equivalent form of 1. Multiply straight across (numerator times numerator, and denominator times denominator).

- For example: $\frac{1}{2} \cdot \frac{2}{2} = \frac{1 \cdot 2}{2 \cdot 2} = \frac{2}{4}$

I just thought you'd like to know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole.

Did you know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole?

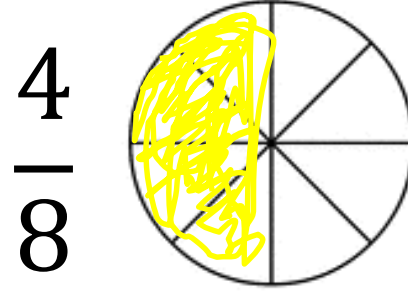
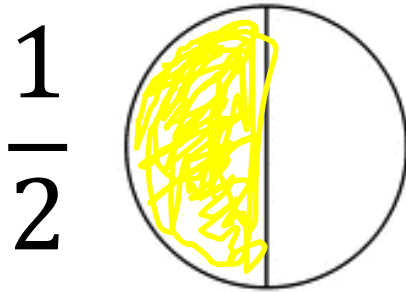


- To change a fraction into an equivalent fraction in simplest form, you can divide by equivalent forms of 1 using common factors (numerator divided by numerator, and denominator divided by denominator).

- For example: $\frac{2}{4} \div \frac{2}{2} = \frac{2 \div 2}{4 \div 2} = \frac{1}{2}$

I just thought you'd like to know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole.

Did you know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole?



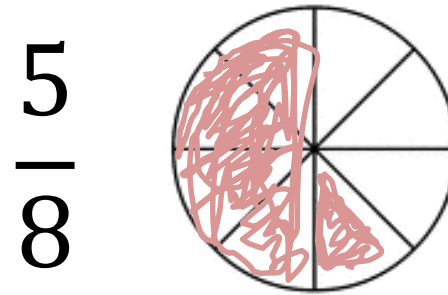
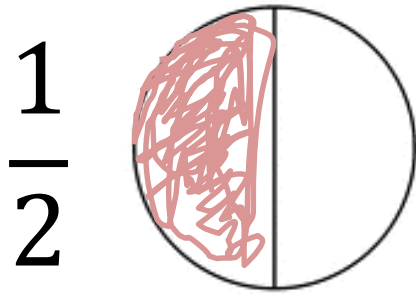
- To change a fraction into an equivalent fraction in simplest form, you can also use prime factorization to identify and divide out common factors.

- For example: $\frac{4}{8} = \frac{2 \cdot 2}{2 \cdot 2 \cdot 2} = \frac{1}{2}$

I just thought you'd like to know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole.

Did you know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole?

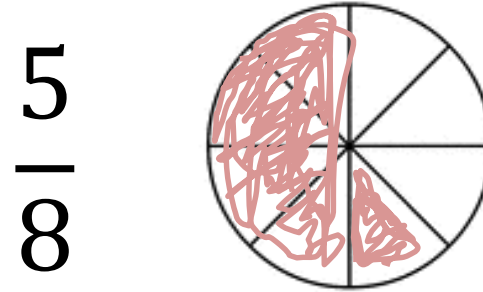
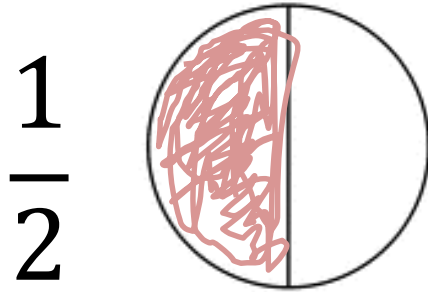
- Fractions can be compared with $<$, $>$, or $=$ using many ways.
- For example, let's compare one-half and five-eighths:



- Drawing a picture shows that $\frac{1}{2} < \frac{5}{8}$.
- Another way is $\frac{1}{2} \cdot \frac{4}{4} = \frac{4}{8}$ and four-eighths is less than five-eighths. This is comparing with a common denominator.
- Another way is $\frac{1}{2} \cdot \frac{5}{5} = \frac{5}{10}$ and five-tenths is less than five-eighths, since tenths are smaller slices of the cake. This is comparing with a common numerator.

I just thought you'd like to know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole.

Did you know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole?



- Fractions can be turned into decimals and then compared. To find the decimal, just divide the numerator by the denominator using long division or other methods.

- $1 \div 2 = 0.5$, and $5 \div 8 = 0.625$

$$\begin{array}{r} 2 \overline{) 1.0} \\ \underline{1.0} \\ 0 \end{array}$$

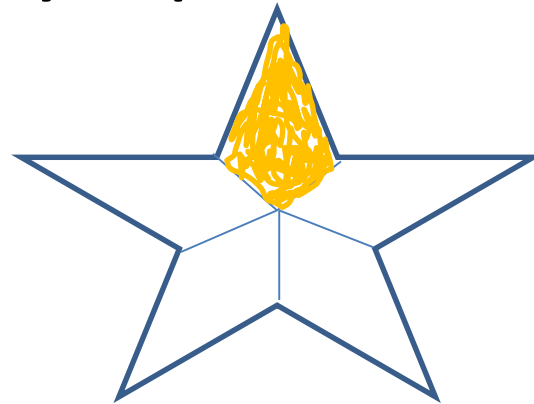
- $0.500 < 0.625$ since five-tenths is less than six-tenths, or $\frac{500}{1000} < \frac{625}{1000}$

I just thought you'd like to know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole.

Did you know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole?

Fractions can have many shapes and sizes.

$\frac{1}{2}$



$\frac{1}{5}$

- To compare two fractions, the size of the whole amount or set must be the same.
- The parts that make up one whole must be equal parts.

I just thought you'd like to know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole.

Did you know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole?

- Fractions are used in our lives every day.
- They are used in our money, time, sports, our food, and in many other ways.



I just thought you'd like to know that a fraction is a ratio of the number of equal parts compared to the number of equal parts in a set or whole.