

Ratio

A ratio is a relationship between two numbers indicating how many times the first number contains the second.

Ratio Amounts – Example One

$a : 15 = 2 : 5$ Find the value of "a"

$\begin{array}{r} 2 & : & 5 \\ & \diagdown & / \\ & a & : & 15 \end{array}$ Write the ratios out vertically, and then Cross Multiply

$2 \times 15 = 5 \times a$ (Note writing $2 \times 15 = a \times 5$ is also okay)


$30 = 5a$ '5' is the number in front of the letter variable and so divide both sides of the equals sign by 5 and simplify.

$\frac{30}{5} = \frac{5a}{5}$

$6 = a \Rightarrow a = 6 \checkmark$

Determining Ratios

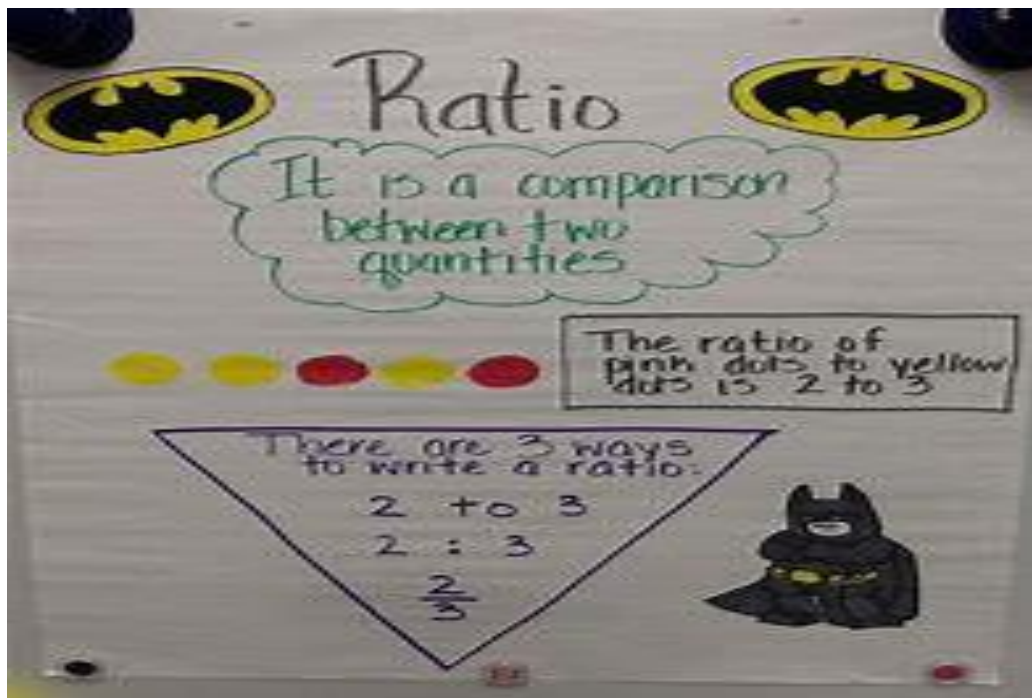
A Ratio is a comparison or a relationship between two items.



The Ratio of Blue Circles to Pink Circles is five blue circles compared to three pink circles.

We can write this in any three of the following ways:

Blue to Pink = 5 to 3 or 5 : 3 or $\frac{5}{3}$



Ratio

It is a comparison between two quantities

The ratio of pink dots to yellow dots is 2 to 3

There are 3 ways to write a ratio:

2 to 3
 $2 : 3$
 $\frac{2}{3}$

A small Batman figure is drawn in the bottom right corner.