

A gardner noticed that some of the flowers on her pea plants were white. In previous years they were purple. How can you explain this?

Dec 11 - 4:50 PM

Heredity- the passing of traits from parent to offspring

What are some examples?

eye color  
hair, texture  
nose  
body type  
height  
roller  
left vs right

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Gregor Mendel, an Austrian Monk made the break through in the study of genetics

- His parents were peasants: he knew a lot about agriculture
- An ordained priest
- Attended the University of Vienna to study science

Dec 11 - 4:54 PM



Europe

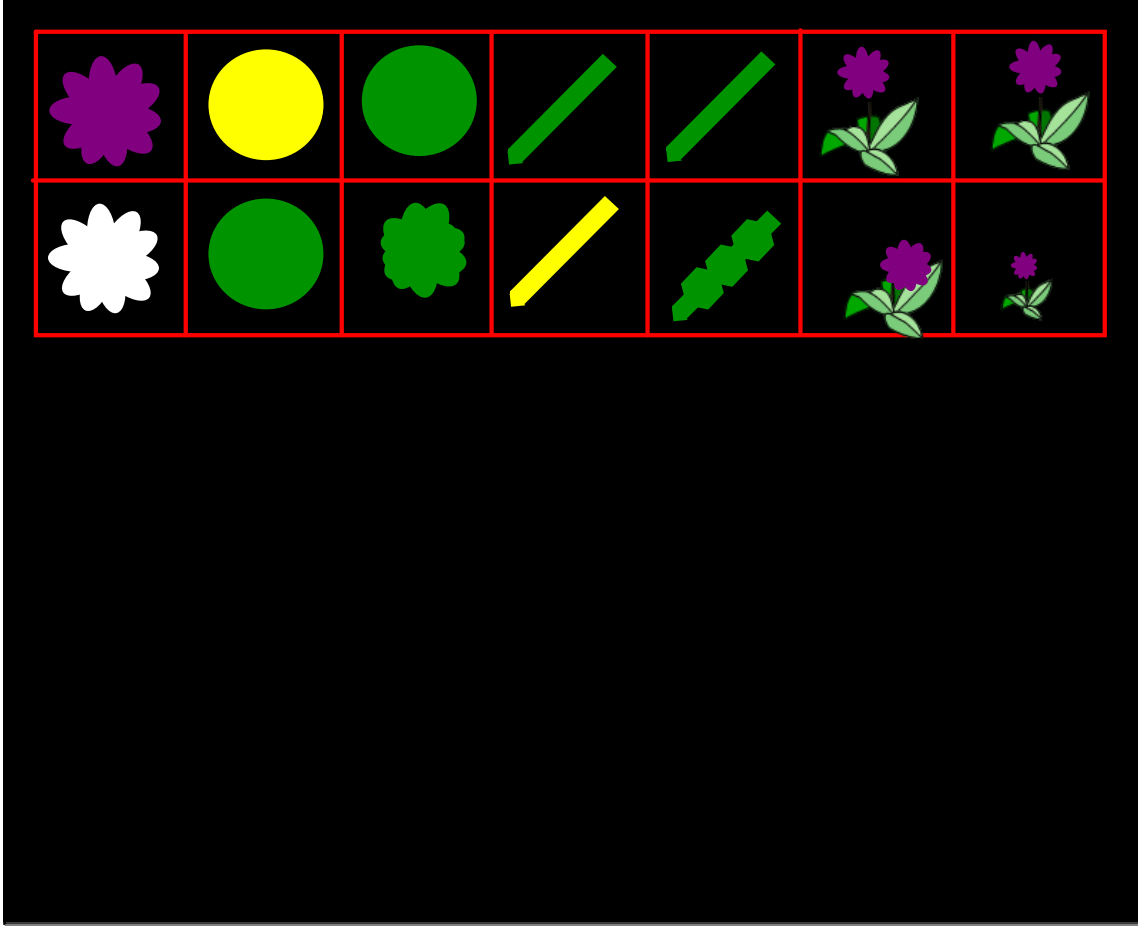
Mendel repeated a previous Scientist's experiments, but he took it to the next level analyzed the data.

Dec 11 - 5:00 PM

Peas have three useful features

- Many traits that have two clearly different forms
- The mating is easily controlled
- It is small, grows quickly, produces many offspring.

Nov 20-10:13 AM



Dec 11 - 5:06 PM

Ratio: A  
comparison of  
two numbers  
that have the  
same unit

Can be written 3 ways.

705 to 224

$\frac{705}{224}$

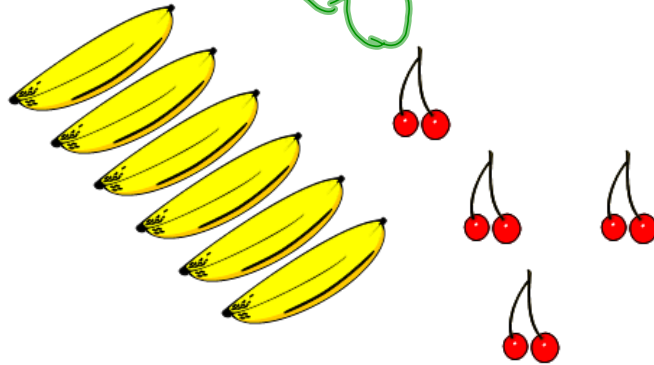
705:224

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What is this ratio?

6:4  
6 to 4  
 $\frac{6}{4}$

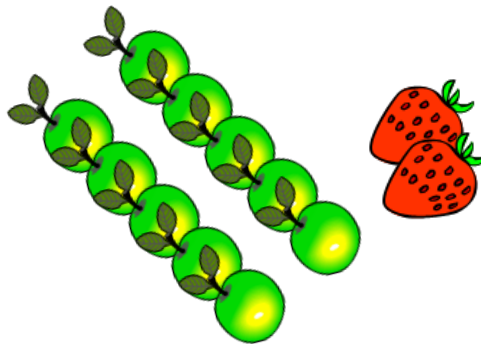
3:2  
3 to 2  
 $\frac{3}{2}$



Dec 7-11:34 AM

What is this ratio?

10:2  
10 to 2  
 $\frac{10}{2}$



Nov 20-10:14 AM

## Homework: Do Math Lab on page 163

Contrasting Traits	F2 Generation Results		Ratio
Flower Color	705 Purple	224 White	3.15:1
Seed Color	6022 Yellow	2001 Green	
Seed Shape	5474 Round	1850 Wrinkled	
Pod Color	428 Green	152 Yellow	
Pod Shape	882 Round	299 Constricted	
Flower Position	651 Axial	207 Top	
Plant Height	787 Tall	277 Dwarf	

Dec 11 - 5:37 PM