

A gardener 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

left vs right

What are some examples?

eye color
height
hair color
toes

Dec 11 - 4:53 PM

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

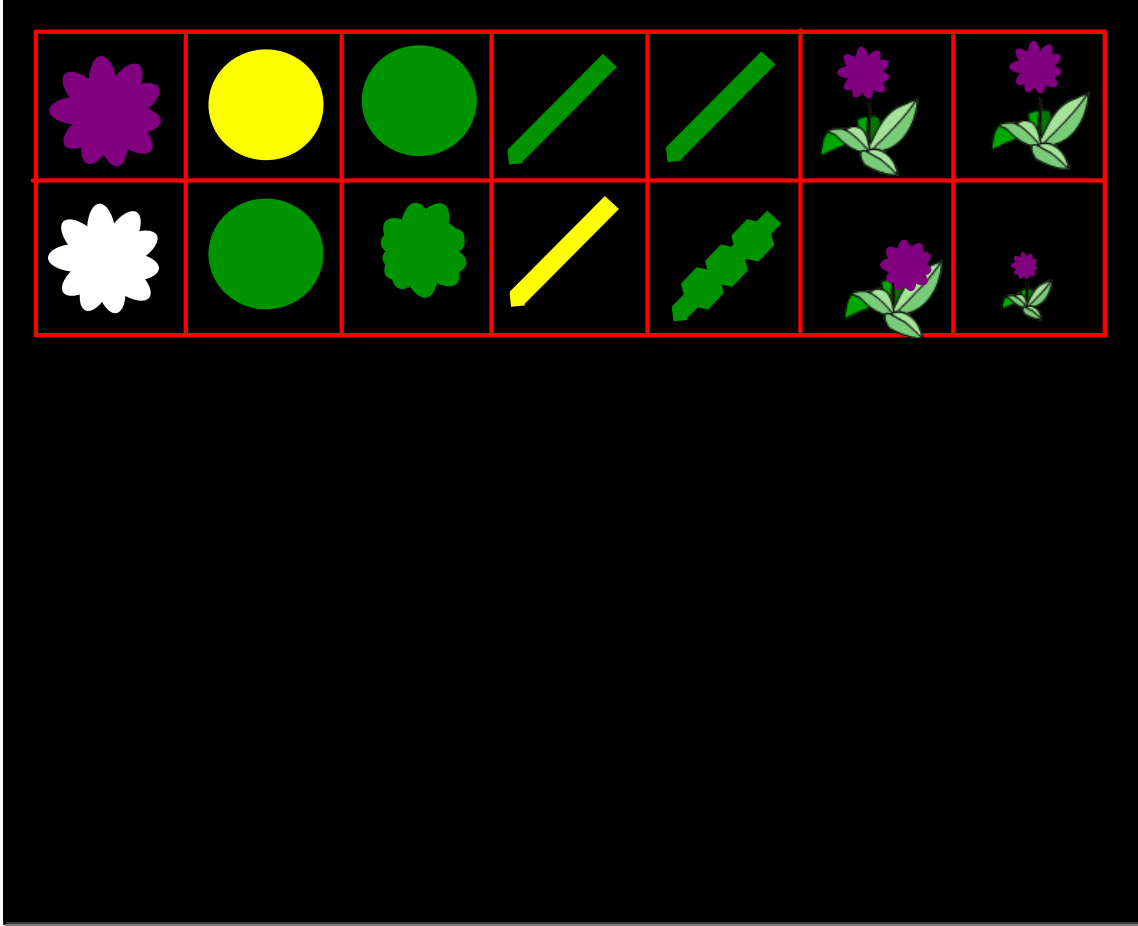
Mendel repeated a previous Scientist's experiments, but he took it to the next level analyzing the data.

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

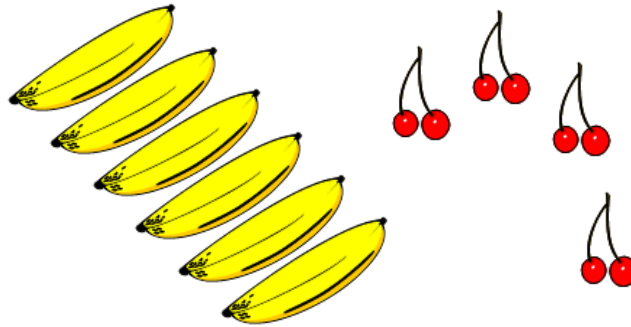
705:224

$\frac{705}{224}$

Dec 11 - 5:31 PM

What is this ratio?

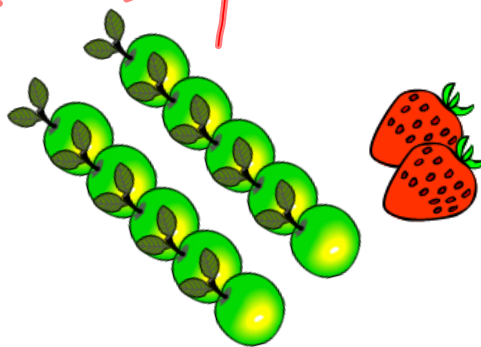
6:4
6 to 4
 $\frac{6}{4}$



Dec 7-11:34 AM

What is this ratio?

10:2 or 5:1
 $\frac{10}{2}$ or $\frac{5}{1}$ or 10 to 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