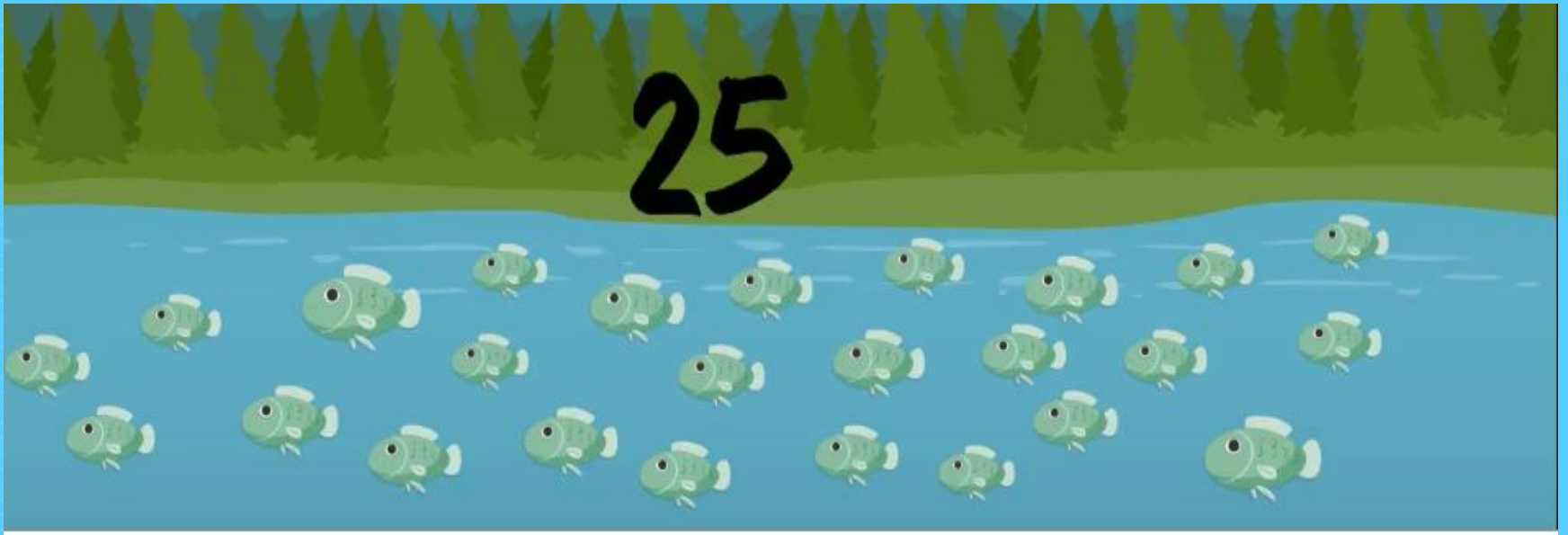


# COMPARE UNLIKE DENOMINATORS

The background of the slide is divided into three horizontal sections. The top section is a solid light blue. The middle section is a solid light green. The bottom section is a solid light yellow. The boundary between the blue and green sections is a straight horizontal line. The boundary between the green and yellow sections is a white line that forms a wide, shallow V-shape pointing downwards.

# Step 1

Compute the fraction from last year.



25 Fish over 1 foot long.

# Step 1

Total number of fish caught was 125



# Step 1

Our Fraction is:

$$\frac{25}{125}$$

# Step 2

Reduce the fraction

- 25 and 125 can be divided by 25

$$\begin{array}{r} 25 \div 25 = 1 \\ 125 \div 25 = 5 \end{array} = \frac{1}{5}$$

# Step 3

Compute the fraction from this fishing trip

- Find the fraction of fish over 1 foot long that you caught this year.



$$\frac{14}{40}$$

# Step 4

Reduce the Fraction  $\frac{14}{40}$

- 14 and 40 can be divided by.... 2

$$\begin{array}{r} 14 \div 2 = 7 \\ 40 \div 2 = 20 \end{array} = \frac{7}{20}$$

# Step 5

Compare the fractions

Which is greater?

$$\frac{1}{5} \quad \text{Or} \quad \frac{7}{20}$$

Find the Least Common Multiple




How do I find the  
least common  
multiple?



# What is a multiple?

Multiples of a number = the numbers you get when you multiply it by other numbers.

**For example:** 8, 16, 24, 32, are all multiples of 8



what is a  
COMMON  
multiple?

# Common Multiple

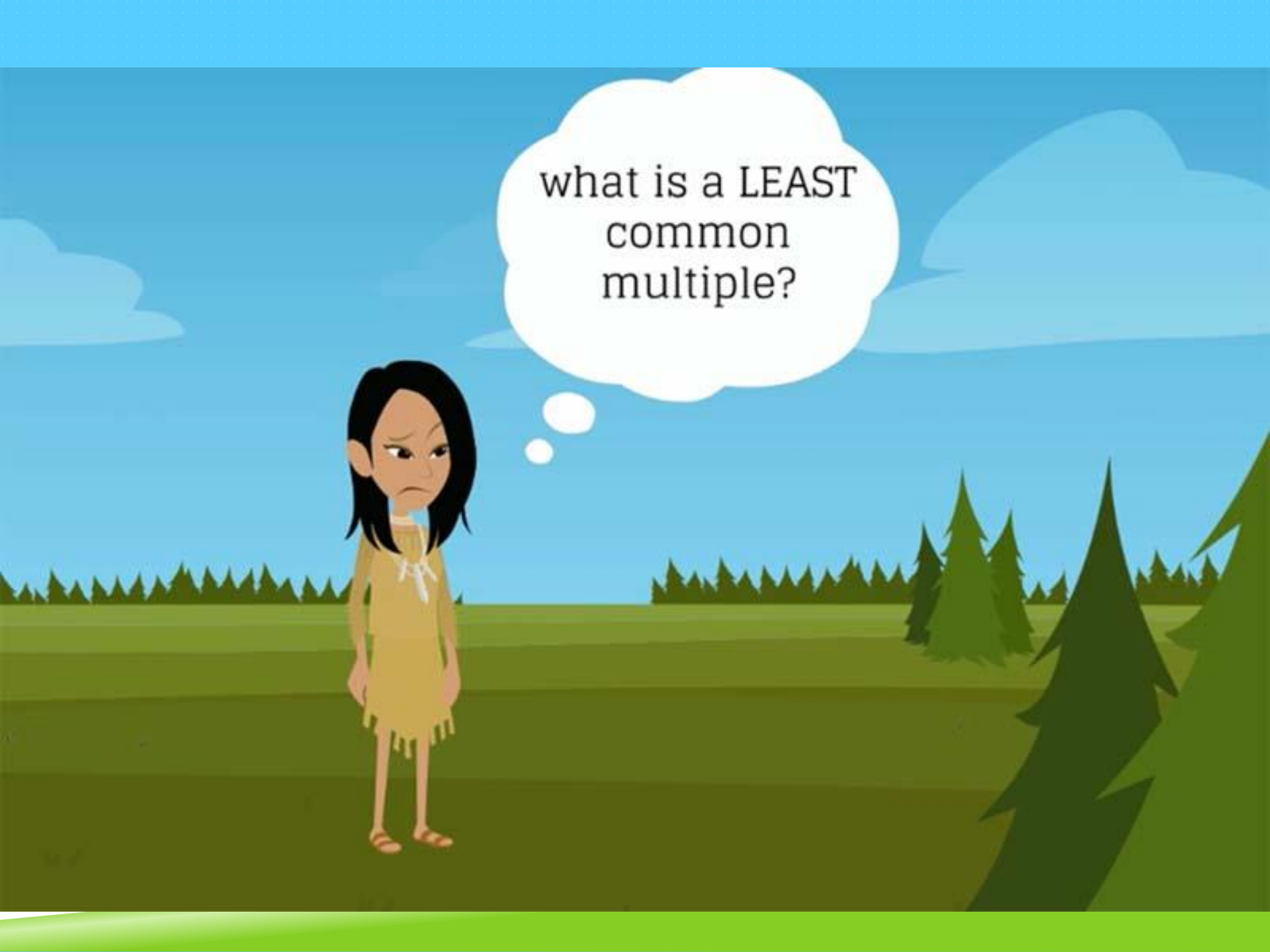
When 2 numbers have a common multiple it means that the same number is multiple of both of them

**FOR EXAMPLE:**

**8,16,24,& 32 are  
all multiples of 8**

**8 and 16 are  
Common  
Multiples**

**2,4,6,8,10,12,14,  
16 are multiples  
of 2**

A cartoon illustration of a girl with long black hair, wearing a yellow dress and sandals, standing in a green field. She has a sad or thoughtful expression. Above her head is a large white thought bubble containing the text "what is a LEAST common multiple?". The background features a blue sky with clouds and a line of green trees in the distance.

what is a LEAST  
common  
multiple?

# Least Common Multiple:

The lowest number that is a common multiple

## IN THIS EXAMPLE:

8, 16, 24, & 32 are  
all multiples of 8

2, 4, 6, 8, 10, 12, 14,  
16 are multiples  
of 2

Least common  
multiple = 8

Going back to the fish problem...

$$\frac{1}{5} \quad \text{Or} \quad \frac{7}{20}$$

Find the least common multiple of 5 and 20



# The least common multiple =

**Multiples of 5 =  
5,10,15,20,25...**

**Multiples of 20 =  
20,40...**

The least common multiple is: **20**



# The Last Step

$$\frac{4}{4} \times \frac{1}{5} = \frac{4}{20}$$

- Multiply the denominator, 5, to equal 20
- What you do to the bottom number, you do to the top number equally.

**There were fewer fish caught last year because:**

$$\begin{array}{c} 4 < 7 \\ \hline 20 & 20 \end{array}$$

# All together now:

Caught Last Year

$$\frac{25}{125} = \frac{1}{5}$$

Caught this Year

$$\frac{14}{40} = \frac{7}{20}$$

And then we changed our fraction  $1/5$ ...

# All together now:

Caught Last Year

$$\frac{25}{125} = \frac{1}{5}$$

Caught this Year

$$\frac{14}{40} = \frac{7}{20}$$

$$\frac{4}{20}$$



Last year

This year

$$\frac{4}{20} < \frac{7}{20}$$

**The fraction of the fish over a foot long, was more this year than last year.**