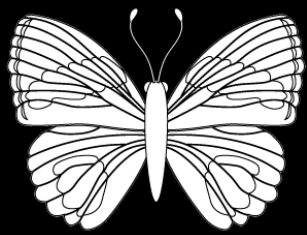
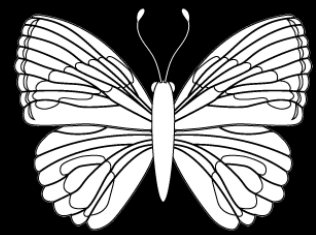


# THE BUTTERFLY



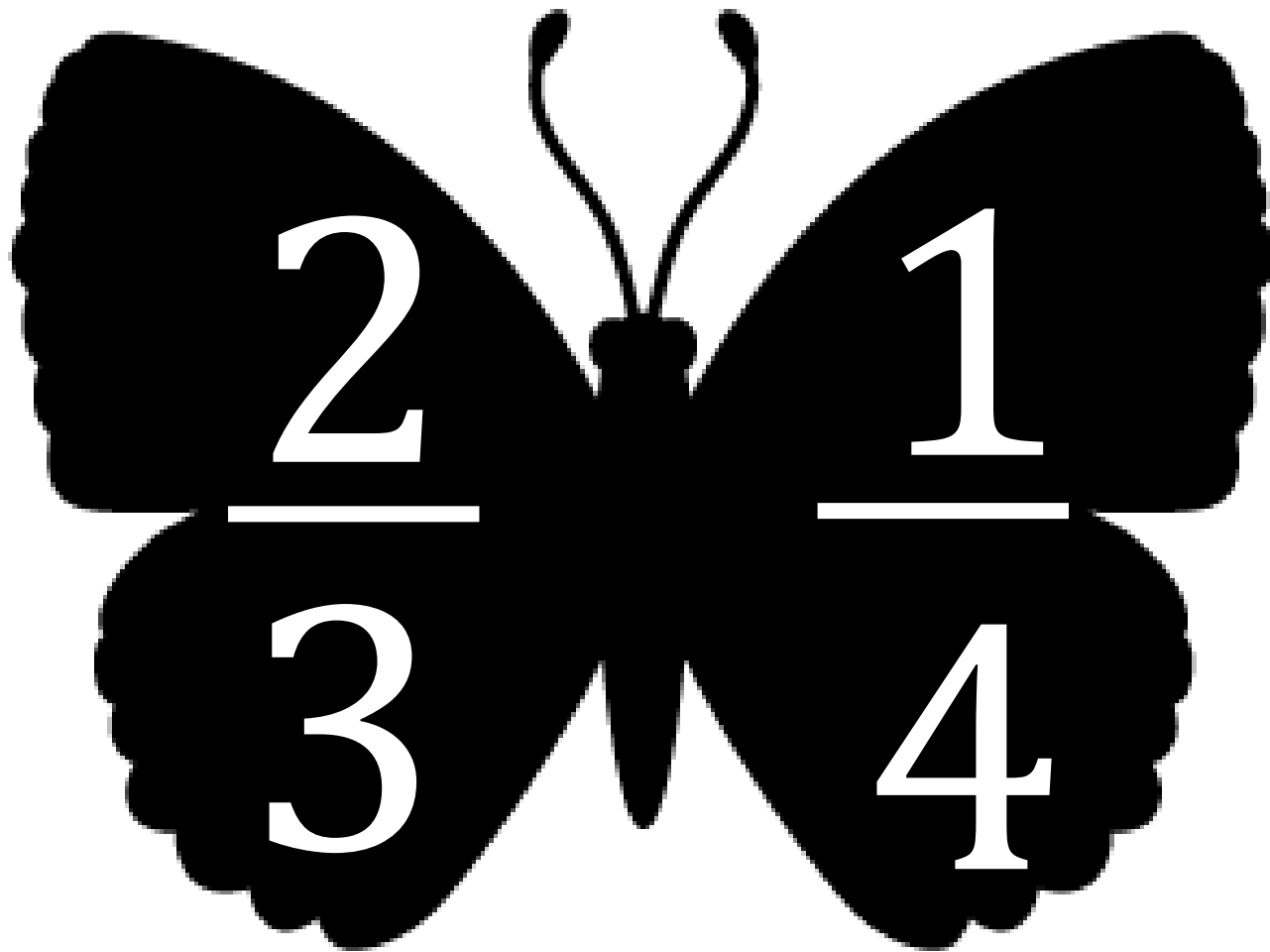
# METHOD



*FOR COMPARING, ADDING &  
SUBTRACTING FRACTIONS*

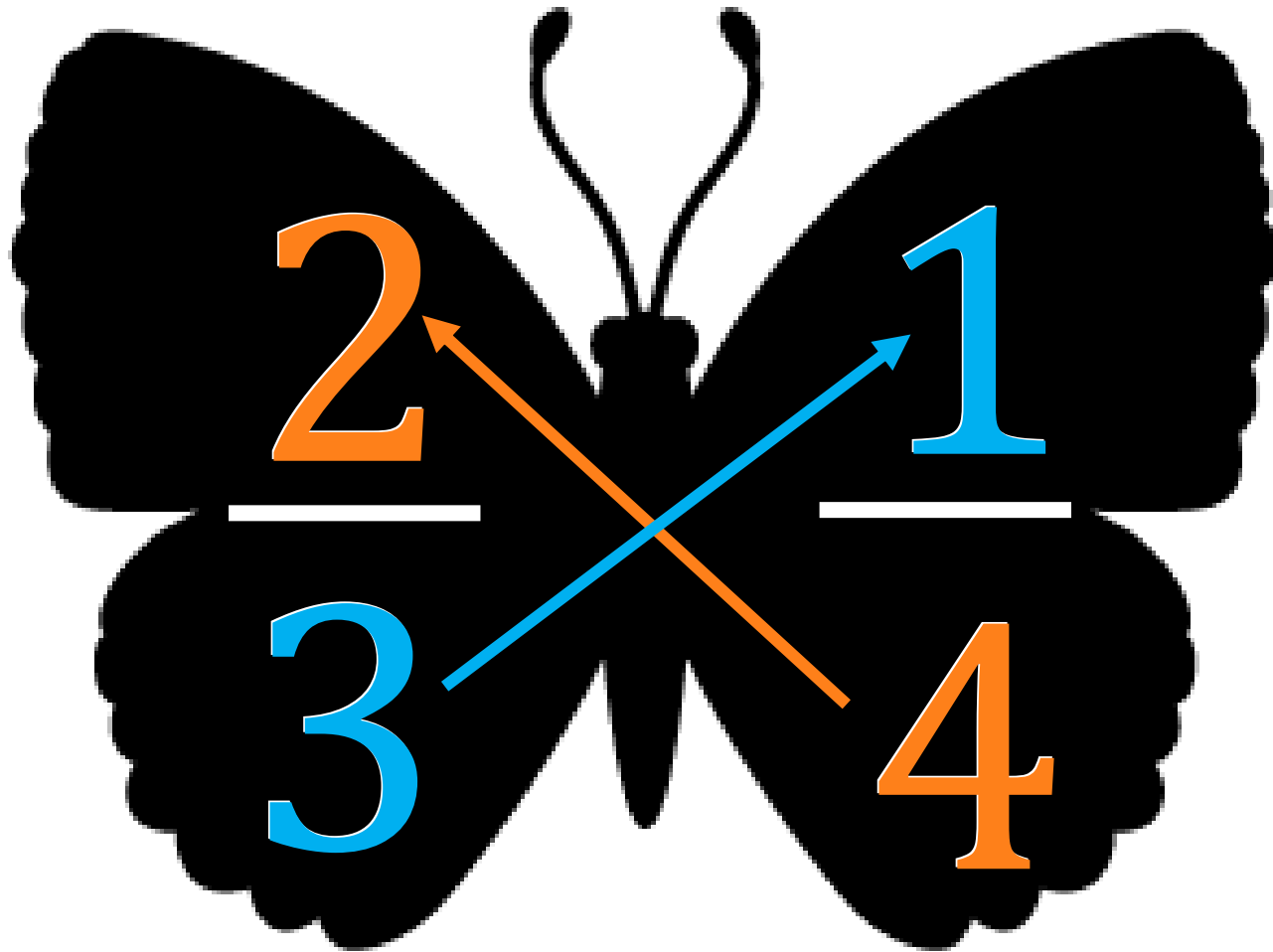






8

3

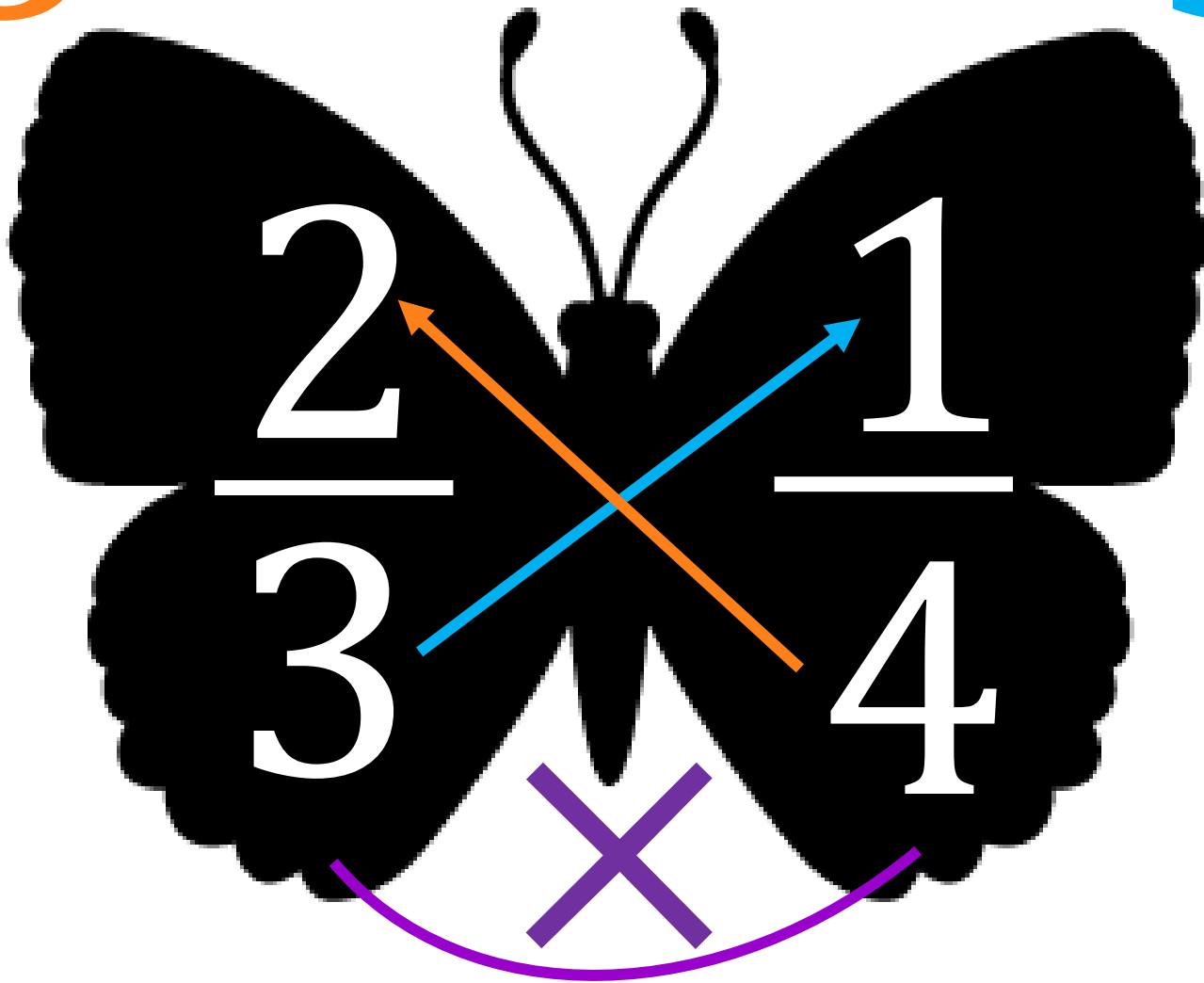




12

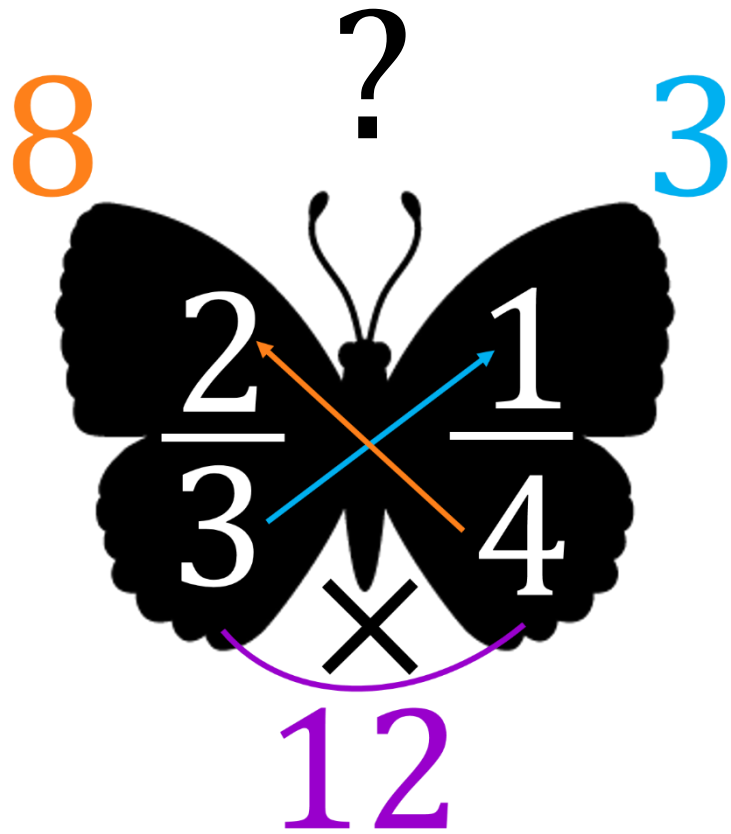
8

3




12

# Comparing Fractions



$$\frac{8}{12} > \frac{3}{12}$$

# Adding Fractions




The butterfly method for adding fractions is illustrated using a butterfly silhouette. The left wing contains the fraction  $\frac{2}{3}$  and the right wing contains  $\frac{1}{4}$ . An orange arrow points from the numerator 2 to the denominator 4, and a blue arrow points from the numerator 1 to the denominator 3. The common denominator 12 is written in purple below the butterfly, with a purple arc connecting the two denominators. Above the butterfly, the number 8 is written in orange and the number 3 is written in blue, representing the numerators of the equivalent fractions. The addition is shown as  $\frac{8}{12} + \frac{3}{12} = \frac{11}{12}$ . The final result  $\frac{11}{12}$  is enclosed in a red rectangular box.

$$\frac{2}{3} + \frac{1}{4} = \frac{8}{12} + \frac{3}{12} = \frac{11}{12}$$



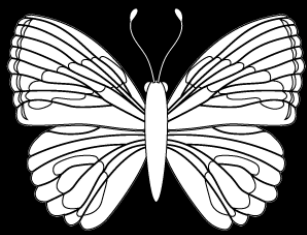
# Subtracting Fractions



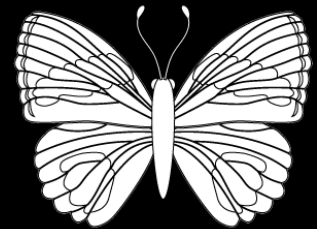
The butterfly method for subtracting fractions is illustrated using a butterfly silhouette. The top-left wing contains the fraction  $\frac{2}{3}$  and the top-right wing contains  $\frac{1}{4}$ . An orange arrow points from the numerator 2 to the denominator 4, and a blue arrow points from the numerator 1 to the denominator 3. The bottom wings contain the numbers 3 and 4. A purple arc connects the bottom wings to the number 12 below them, which is the common denominator. Above the butterfly, the number 8 is written in orange and the number 3 in blue, with a minus sign between them, representing the original subtraction problem  $8 - 3$ .

$$8 - 3 = \frac{8 - 3}{12} = \frac{5}{12}$$

THANK YOU FOR



VIEWING



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