

L.O: to convert between mixed numbers and improper fractions.

## TODAY'S ACTIVITIES CAN BE FOUND JUST UNDER THE STEPS TO SUCCESS

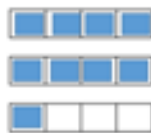


### Key Vocabulary:

- An improper fraction is when the numerator is larger than the denominator. It allows you to express a fraction which is greater than a whole.
- A mixed fraction is a whole number and a fraction combined into one 'mixed' number.
- The denominator is the number that is found at the bottom of the fraction, it represents how many equal parts the whole shape or number is divided into.
- The numerator is the number that is found above the horizontal line. It represents how many of the equal parts that there are.

## STEPS TO SUCCESS

### Mixed number to an improper fraction

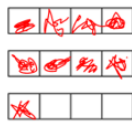


WAGOLL

$$2\frac{1}{4} = \frac{9}{4}$$

- Look at the denominator to see what you need to split your bar into.
- Draw out your bars, first drawing out how many wholes you have.
- Shade them in.
- Draw another bar and look at your numerator in your proper fraction to see how many needs shading.
- Count how many parts shaded. This becomes your numerator. The denominator stays the same.

## Improper fraction to a mixed number



WAGOLL

$$\frac{9}{4} = 2\frac{1}{4}$$

- Look at the denominator to see what you need to split your bar into.
- Draw out your bars, splitting the bar up into the equal sections you've identified.
- Shade in the amount of the numerator.
- Count how many whole bars you have, that is your whole number
- Your amount left over is your numerator and the denominator always stays the same.

Activity:

1. Convert these improper fractions to mixed numbers.

(a)  $\frac{8}{3}$

(b)  $\frac{12}{5}$

(c)  $\frac{21}{8}$

2. Convert these mixed numbers to improper fractions.

(a)  $2\frac{1}{3}$

(b)  $3\frac{3}{4}$

(c)  $1\frac{1}{12}$

3. Fill in the missing boxes.

(a)  $2\frac{\square}{5} = \frac{11}{5}$

(b)  $\square\frac{3}{4} = \frac{7}{4}$

(c)  $4\frac{1}{\square} = \frac{\square}{2}$

Pizzas are eaten at a party.

Each pizza is cut into eight slices.

42 slices are eaten.

(a) How many whole pizzas are eaten at the party?

(b) At another party seven and a half pizzas are eaten.

How many slices are eaten?

**Challenge:**

Which is bigger?

$$\frac{127}{5} \quad \text{or} \quad 24\frac{1}{2}$$

## ANSWERS TO VIDEO CHALLENGE

Find the value of  $a + b + c$

$$\frac{15}{11} = 1\frac{a}{11}$$

$$\frac{29}{a} = b\frac{c}{a}$$

$$a = 4, b = 7, c = 1$$