Adding fractions

Equal parts first. Original AIHotple practice lesson.

A fraction describes equal parts of one whole.
The denominator tells you how many equal parts form the whole.
The numerator tells you how many of those parts you have.

Equivalent fractions describe the same amount using different-sized parts.
For example, 1/2 = 2/4. Both represent half of the same whole.

To add fractions, first express them using equal-sized parts.
Multiply a numerator and its denominator by the same nonzero number.
Then add the numerators and keep the common denominator.

Worked example
1/3 + 1/6 = 2/6 + 1/6 = 3/6 = 1/2.
The two addends are now measured in sixths.

Your task
Find 2/3 + 1/4. Explain why your parts are the same size.
Begin by describing what the 3 and the 4 each count.
Show an equivalent fraction for each addend before adding.
Use the same whole for both fractions.

A way to check your reasoning
Your total must be greater than 2/3 because you add a positive amount.
You can draw two equally long bars and split them into equal parts.
Explain each step in your own words.