Fractions and Proportion

Learning Objective:

To be able to convert improper fractions into mixed numbers.

$$\frac{7}{4}$$

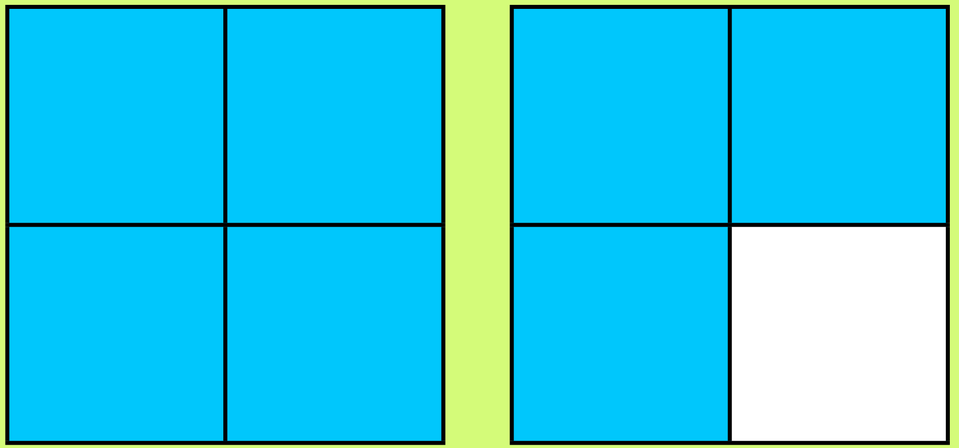
What do we call this type of fraction where the numerator is bigger than the denominator?

$$\frac{7}{4}$$

This kind of fraction is known as an improper fraction because the 'proper' way to show a fraction is showing part of a whole. Improper fractions are more than the value of one whole. You should use whole numbers with fractions whenever you can.

What would this fraction be if we converted it into a mixed number?

$$\frac{7}{4} = 1\frac{3}{4}$$



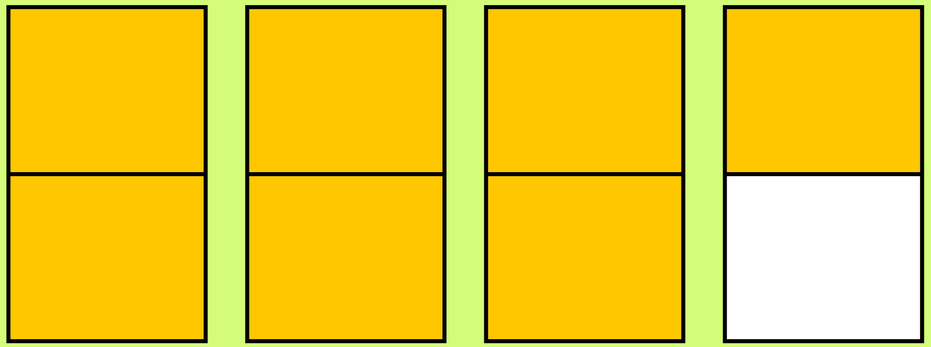
As a mixed number (where you have a whole number then a fraction) this would be 1¾ because there are four parts in each quarter. If you have seven parts altogether, that makes one whole with three parts left over.

$$\frac{7}{2}$$

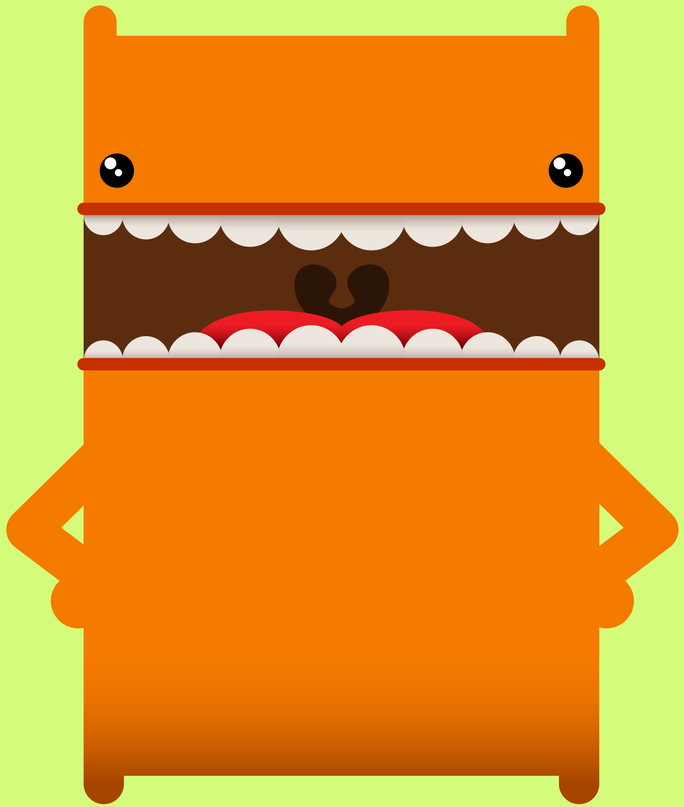
Can you change this improper fraction into a mixed number?

Did you get that right? How did you work it out?

$$\frac{7}{2} = 3\frac{1}{2}$$



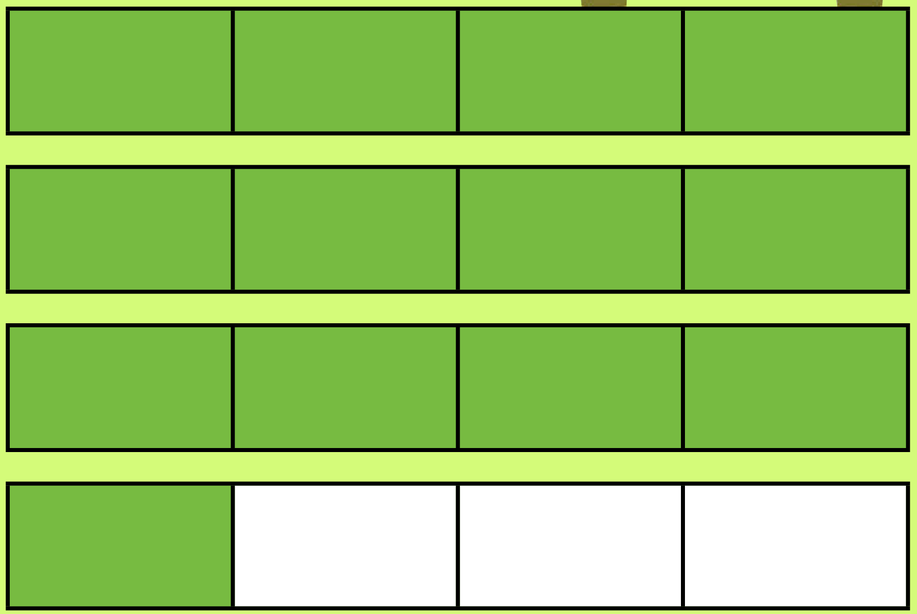
$$\frac{13}{4}$$

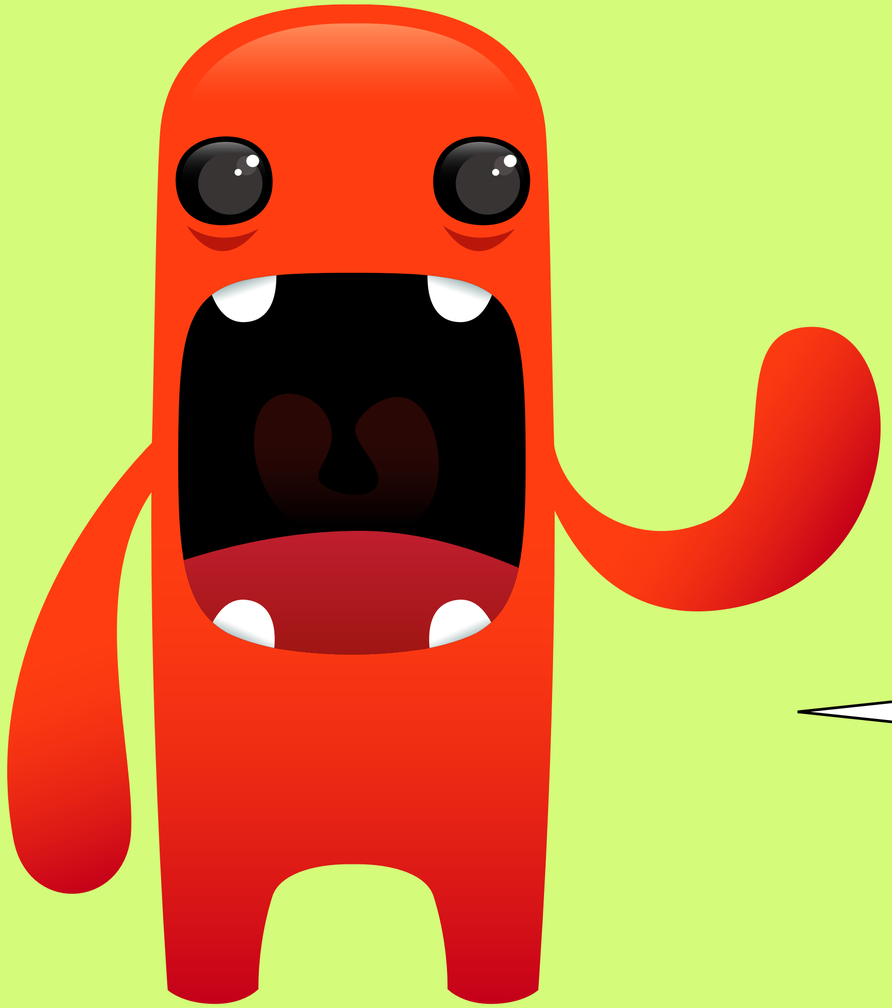


Can you change this improper fraction into a mixed number?

Did you get that right? How did you work it out?

$$\frac{13}{4} = 3\frac{1}{4}$$

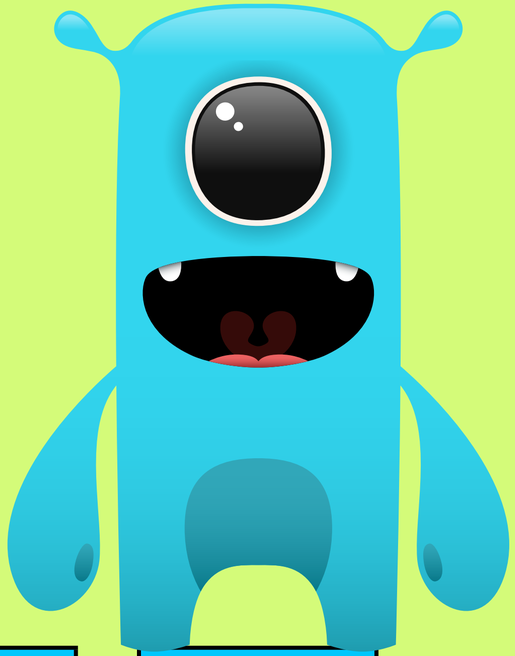




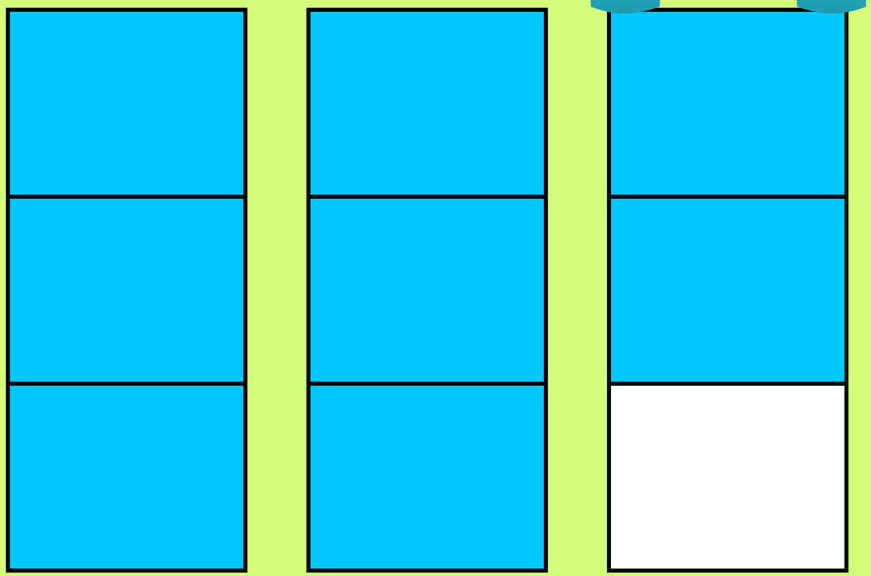
$$\frac{8}{3}$$

Can you change this improper fraction into a mixed number?

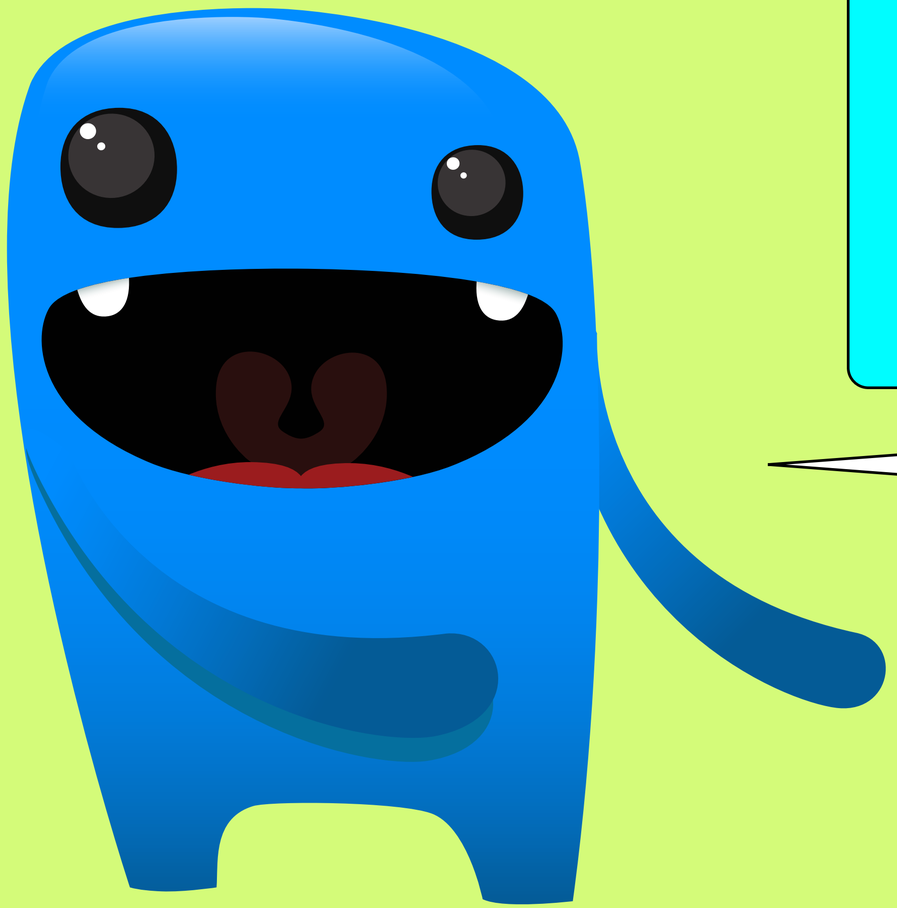
Did you get that right? How did you work it out?



$$\frac{8}{3} = 2\frac{2}{3}$$



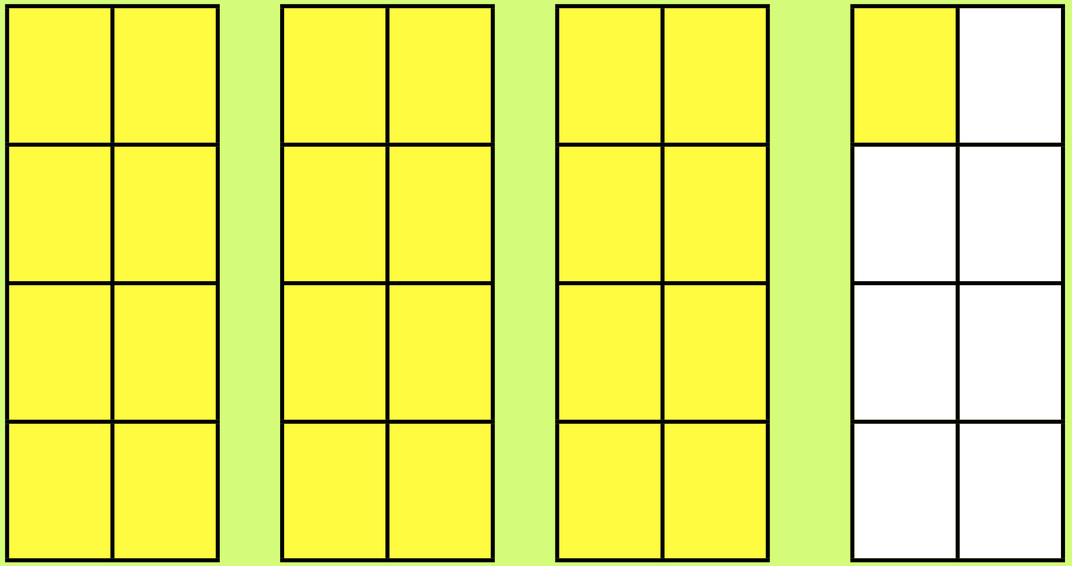
$$\frac{25}{8}$$



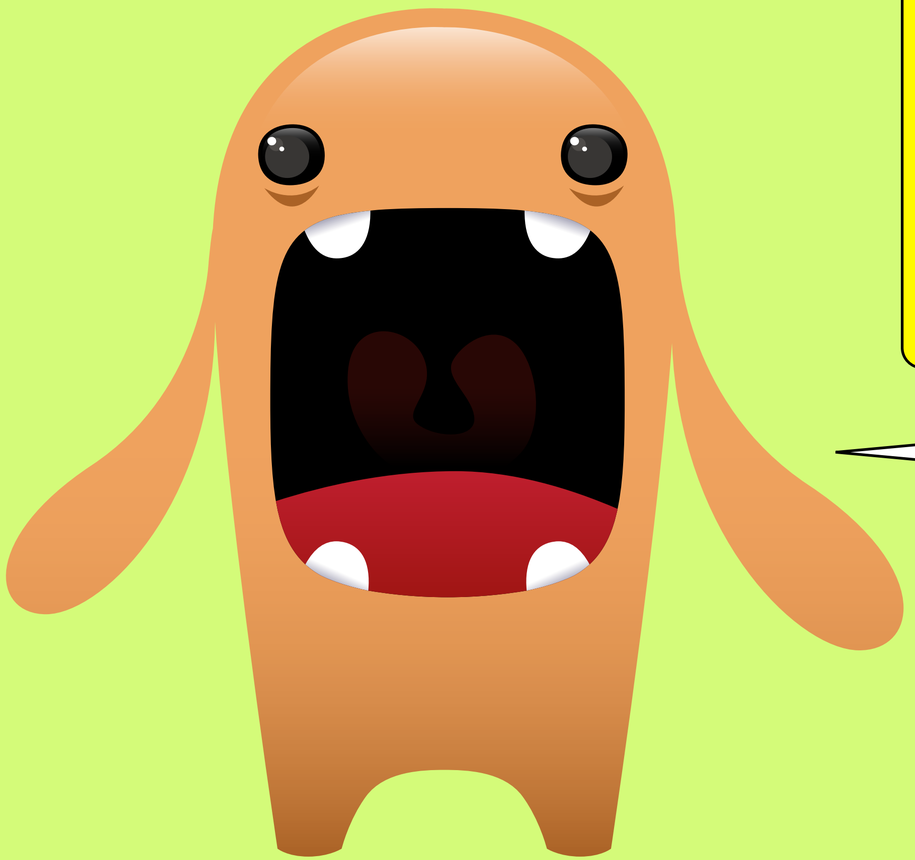
Can you change this improper fraction into a mixed number?

Did you get that right? How did you work it out?

$$\frac{25}{8} = 3\frac{1}{8}$$



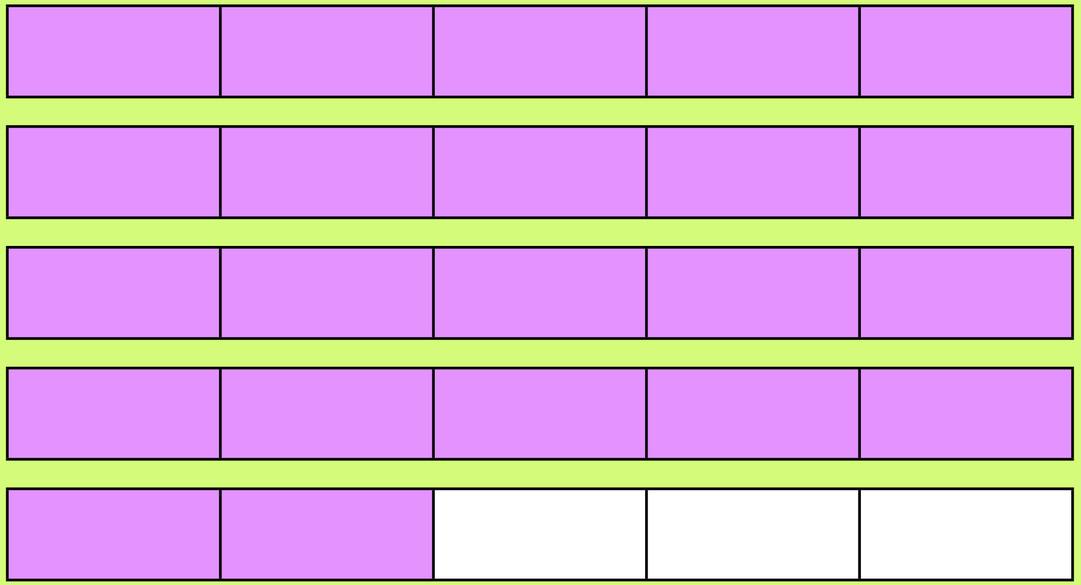
$$\frac{22}{5}$$



Can you change this improper fraction into a mixed number?

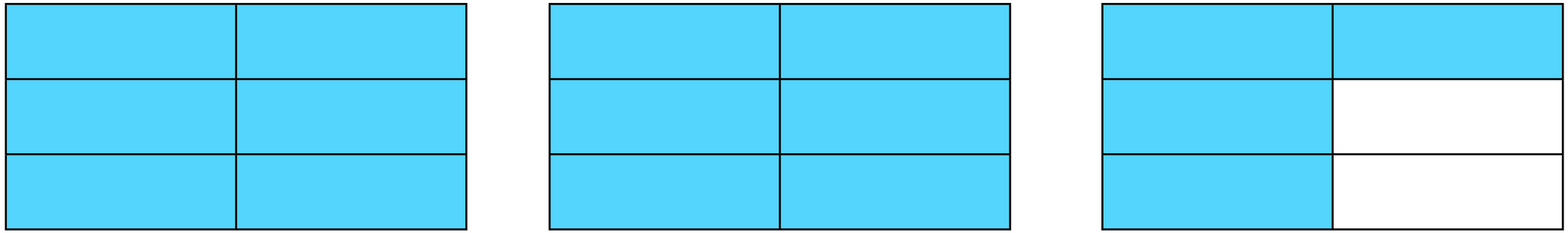
Did you get that right? How did you work it out?

$$\frac{22}{5} = 4\frac{2}{5}$$

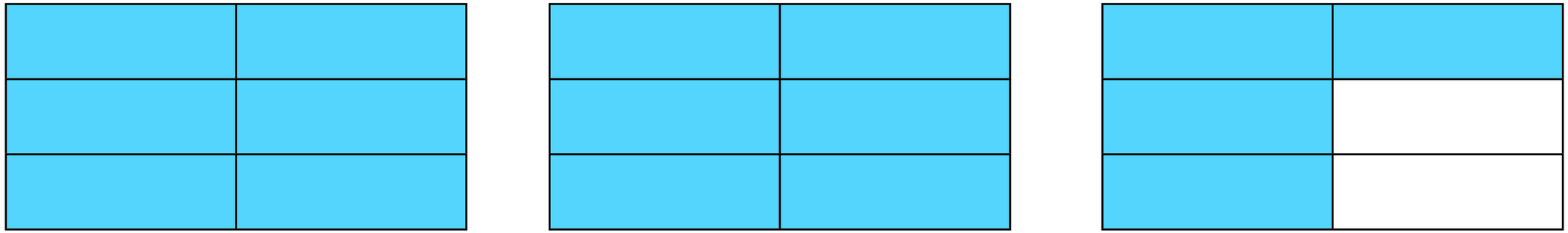


Good job!
Time to have a go on your own!

Plenary:

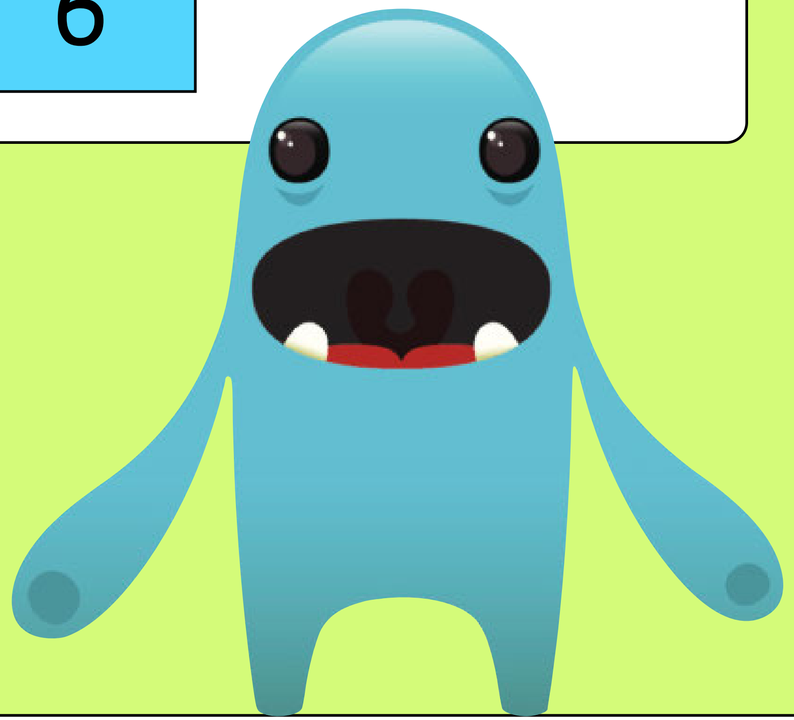


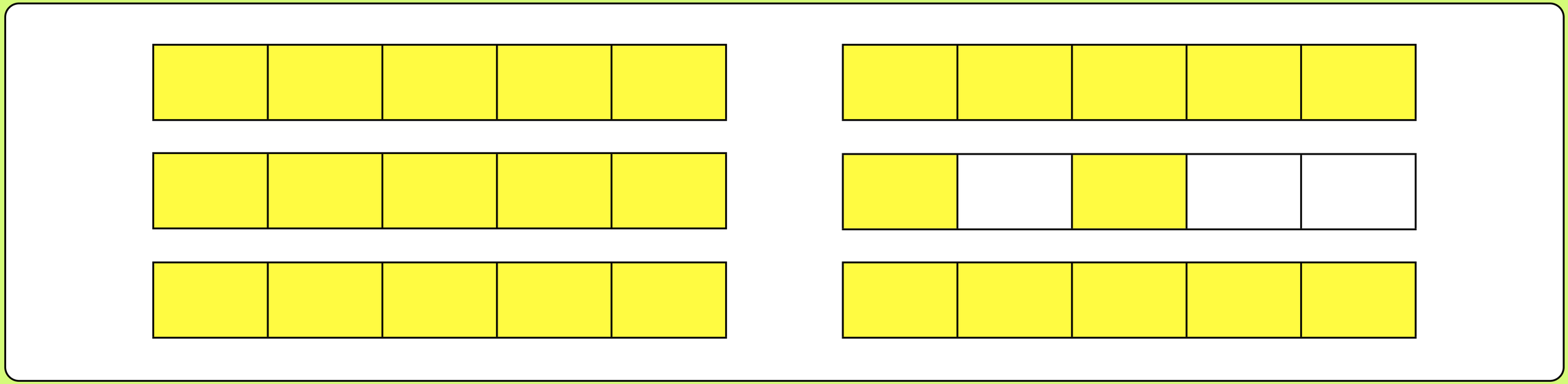
Can you write the picture above as an improper fraction and as a mixed number?



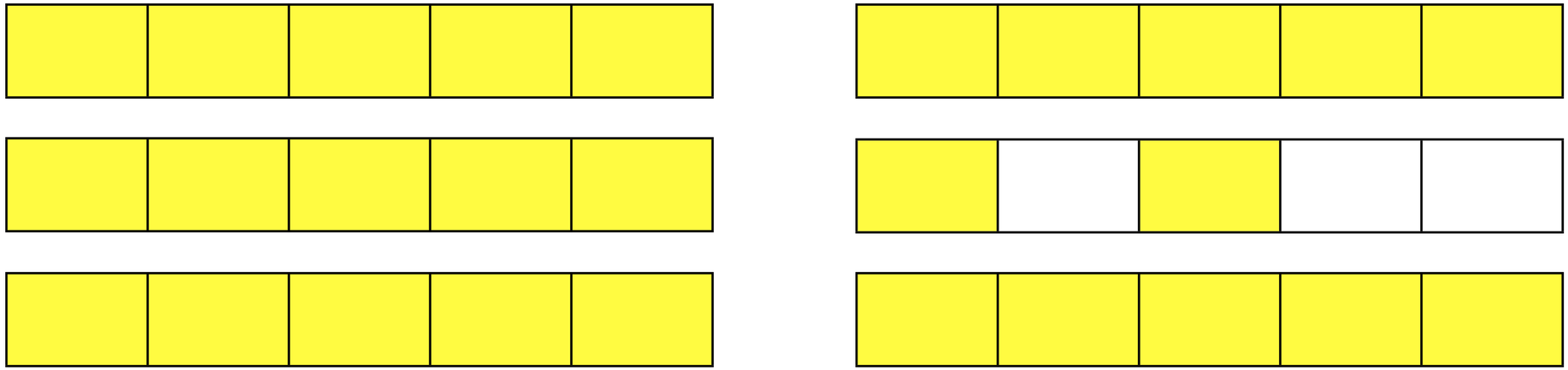
$\frac{16}{6}$ or $2\frac{4}{6}$

Did you get those right?



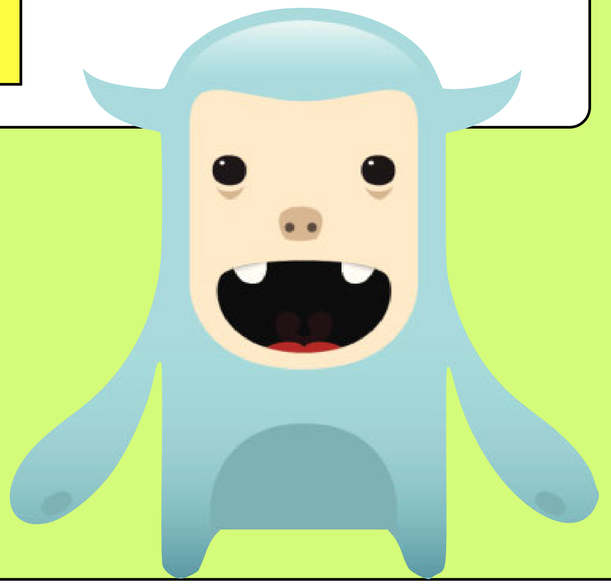


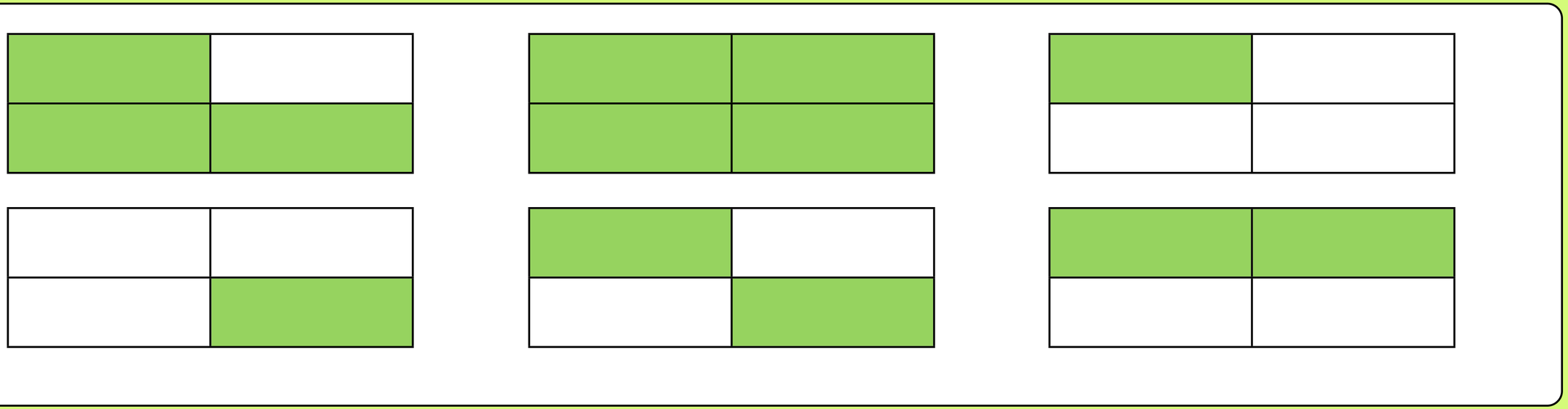
Can you write this picture as an improper fraction and as a mixed number?



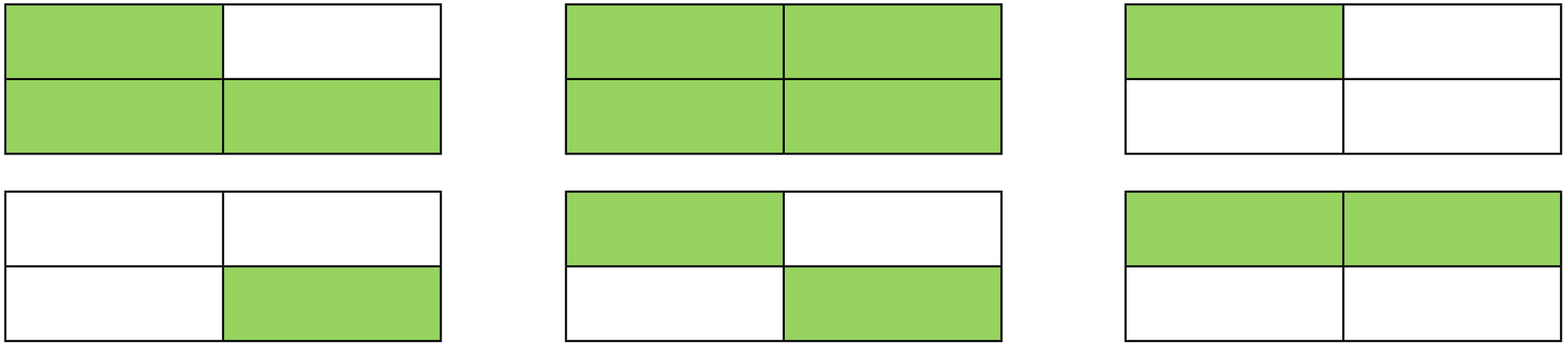
$\frac{27}{5}$ or $5\frac{2}{5}$

Did you get those right?





Can you write this picture as an improper fraction and as a mixed number?



$\frac{13}{4}$ or $3\frac{1}{4}$

Did you get those right?