Understand the numerators of non-unit fractions

White Rose MATHS

1 Complete the sentences for the bar models.

a)

The whole has been split into ☐ equal parts.

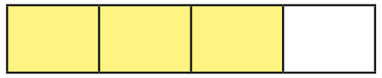
The denominator is ☐

☐ of the parts is shaded.

The numerator is ☐

The fraction shaded is ☐

b)



The whole has been split into ☐ equal parts.

The denominator is ☐

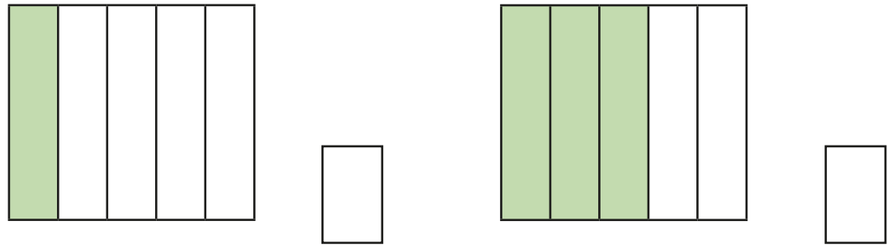
☐ of the parts are shaded.

The numerator is ☐

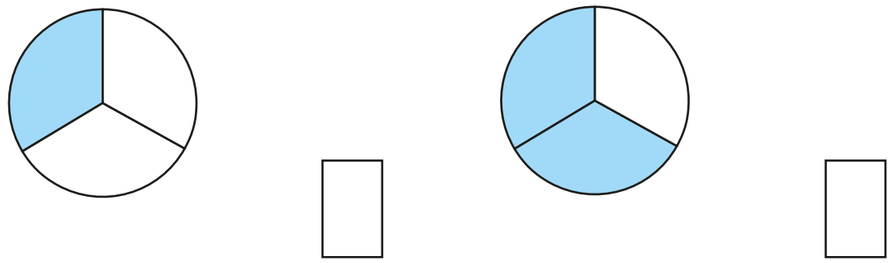
The fraction shaded is ☐

2 What fraction of each shape is shaded?

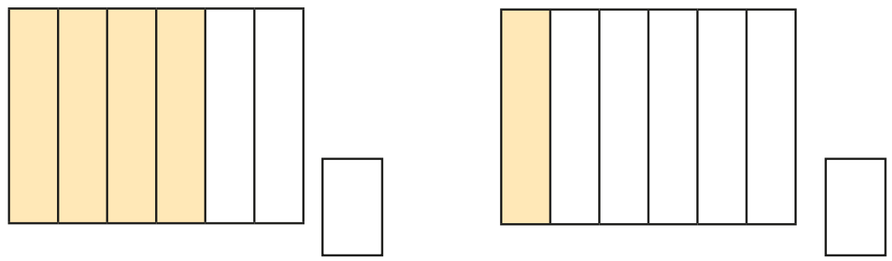
a)



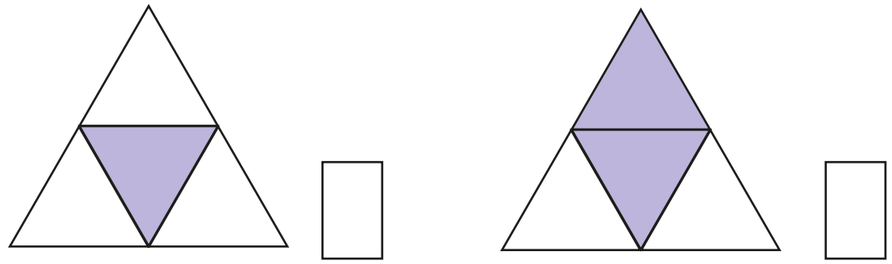
b)



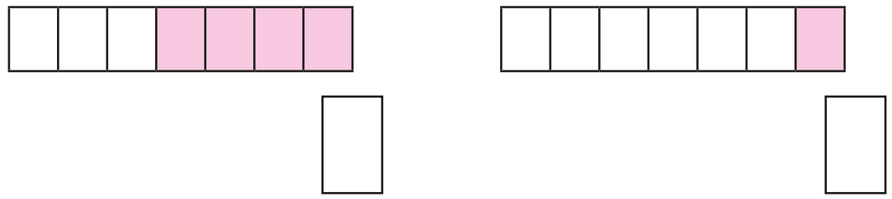
c)



d)



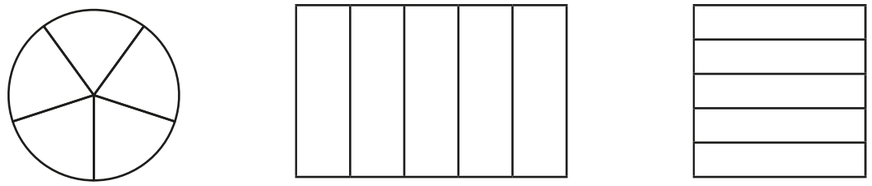
e)



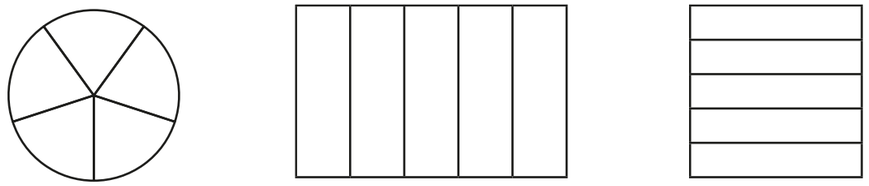
Tick the non-unit fraction in each pair of shapes.

How did you know which was the non-unit fraction?

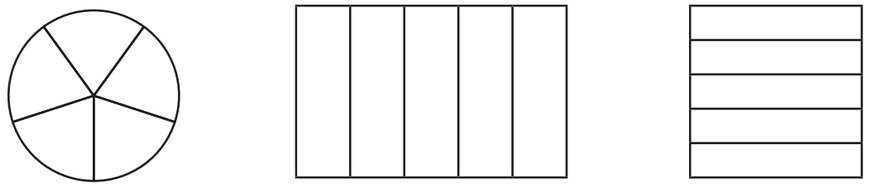
3 **a)** Shade $\frac{2}{5}$ of each shape.



b) Shade $\frac{4}{5}$ of each shape.



c) Shade $\frac{3}{5}$ of each shape.



Compare answers with a partner.

4 **a)** What is a unit fraction? What is a non-unit fraction?

Talk about it with a partner.

b) Complete the sentences.

An example of a unit fraction is ☐

The numerator is always ☐

An example of a non-unit fraction is ☐

The numerator is always greater than ☐

5 Complete the sentences.

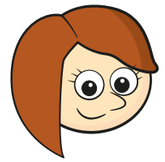
a) $\frac{3}{4}$ is equal to ☐ lots of $\frac{1}{4}$

b) $\frac{2}{7}$ is equal to 2 lots of $\frac{\square}{7}$

c) ☐ is equal to 3 lots of $\frac{1}{8}$

d) ☐ lots of ☐ is equal to $\frac{7}{10}$

6 The children are working out the fraction shown in the bar model.

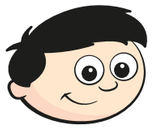


Rosie

The bar model shows $\frac{3}{4}$

The bar model shows $\frac{3}{7}$

Whitney



Dexter

The bar model shows $\frac{4}{7}$

Who do you agree with? _____

Give reasons for your answer.