Maths Investigations – Week 4
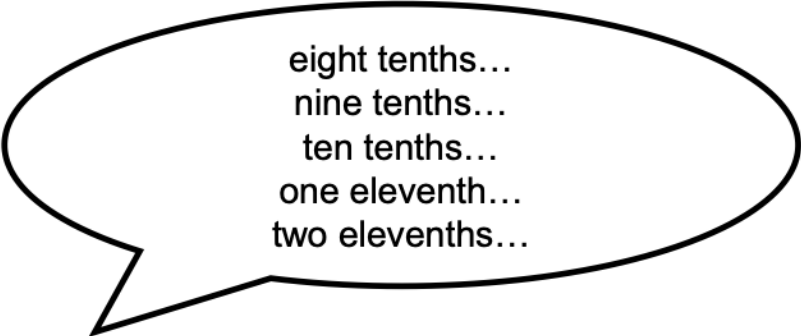# Fractions

These investigations are to help you develop your problem-solving skills and your reasoning skills, you can do as many as you like. Please make sure you show your workings out, use jottings and anything else you might need to

Investigation 1: Counting in Tenths

Using GMC can you explain if Sophie is correct? If she has made a mistake can you correct her mistake?

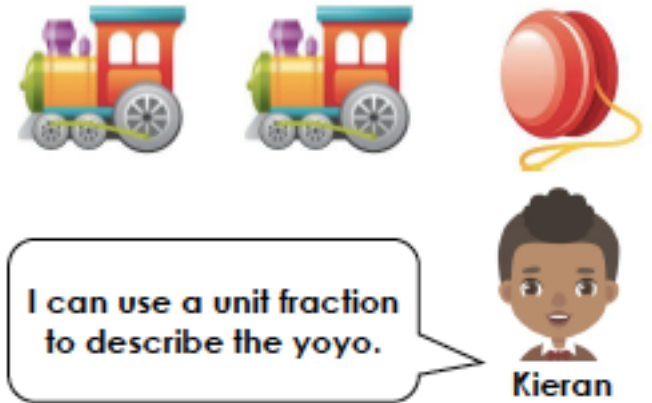Sophie is counting in tenths. She says,

> eight tenths…
> nine tenths…
> ten tenths…
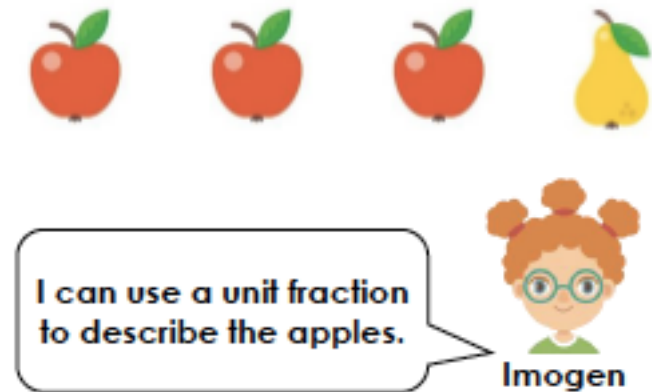> one eleventh…
> two elevenths…

Is Sophie correct? Explain your answer.

Investigation 2: Unit and Non Unit Fractions

Kieran is playing with his toys. Kieran believes that he can use a unit fraction to describe the yoyo.
Is Kieran correct? Explain and show me how you know.

Imogen has picked some apples. Imogen believes that she can use a unit fraction to describe the yoyo.
Is Imogen correct? Explain and show me how you know.

Investigation 3: Representing Fractions

Do all the below fractions have a representation? If not, which fraction is missing a representation and can you draw a representation for this fraction?
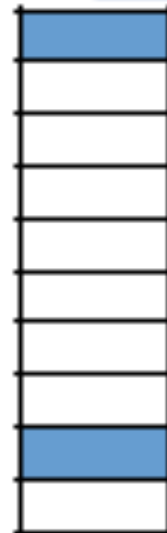
$$\frac{3}{8}$$ Two out of ten   Four fifths $$\frac{2}{5}$$

A.

B.

C.