

MATHEMATICS



Y2 Fractions 2410

Recognise simple fractions and equivalence.

Equipment

Counters, beads, cubes etc useful for dividing into quarters and halves.
Crayons.

MathSphere

Concepts

To begin with, work on fractions will be based on practical activities.

There are a large number of activities that can be undertaken, including:

- a. filling jars, cups, containers half full with water/sand etc.
- b. shading half of shapes
- c. dividing an apple, pear etc in half
- d. cutting a bar of chocolate in half
- e. cutting a piece of plasticine into two halves
- f. cutting string in half
- g. learning nursery rhymes involving halves
- h. moving half way towards something

At first all these activities should involve dividing **one object** into two halves, rather than counting several things (eg sweets) into two equal piles.

After a good deal of work on dividing small numbers of objects in half, children can then move onto the idea of finding half of a number: eg what is half of six? As part of their mental arithmetic work they should be encouraged to learn what half of any even number up to 10 is.

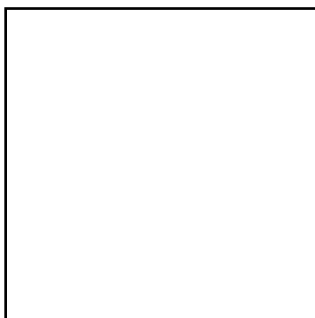
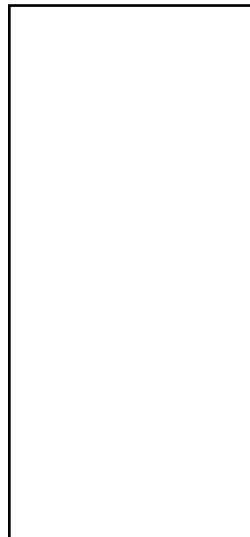
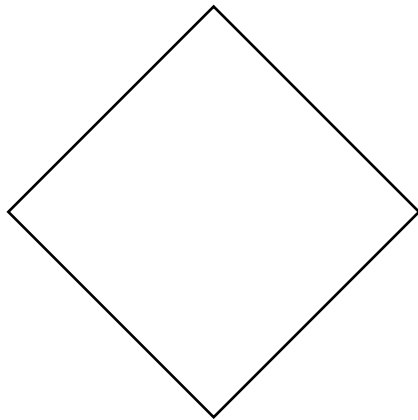
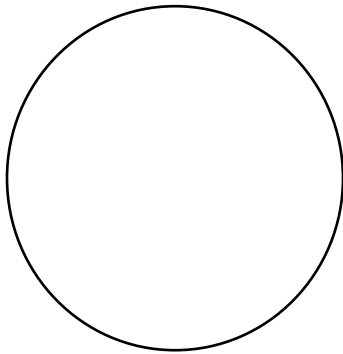
Work on quarters will develop in the same way, and one of the main concepts to re-inforce is that two quarters are the same as a half. This is a very early introduction to equivalent fractions - a crucial concept if children are to understand more complex fraction work in later years.

A further idea to develop is that two halves make a whole and that four quarters make a whole.

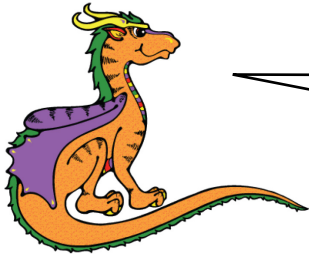
Halves



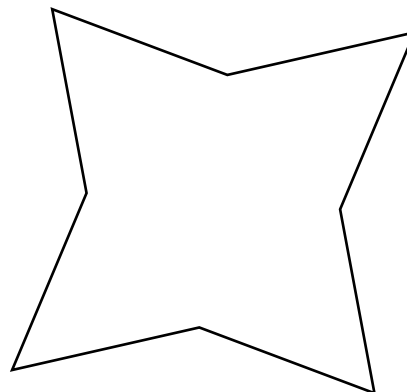
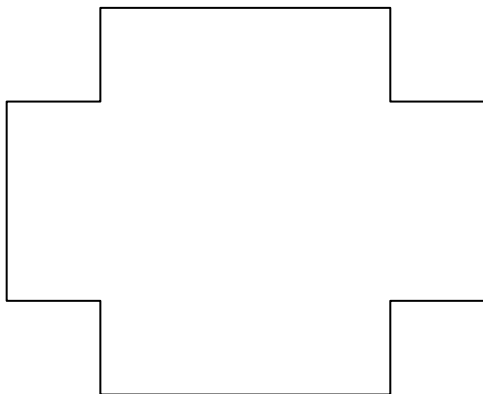
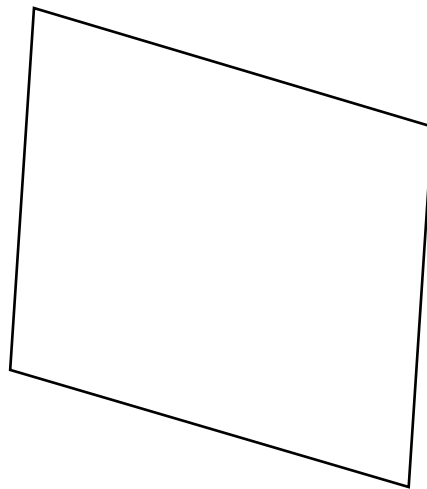
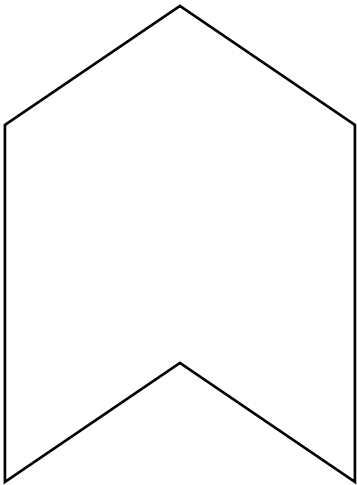
Colour half of
each shape:



Halves

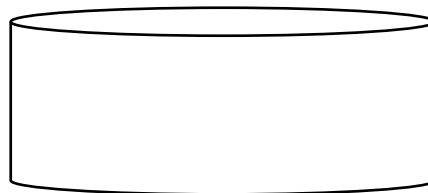
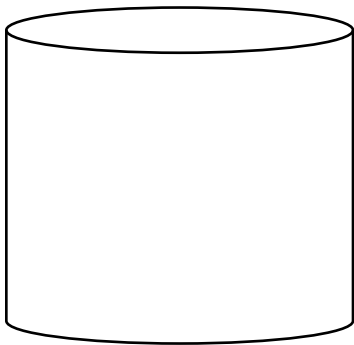
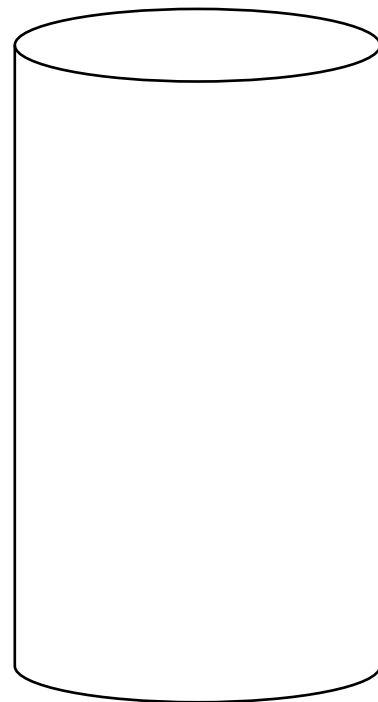
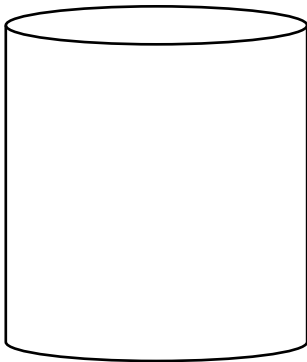


Colour half of
each shape:





Half fill these jars with red dragon's food. (Crayon!)



About a half

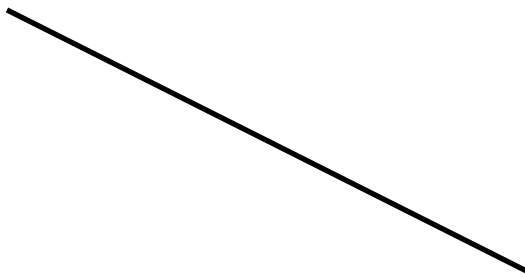
Draw a line about half as long as each of these lines:



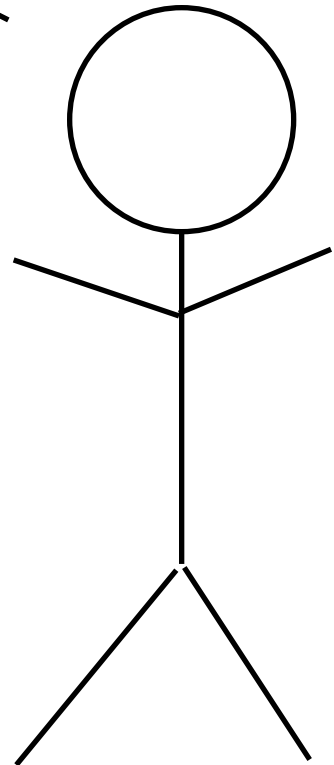
1.



2.



3.

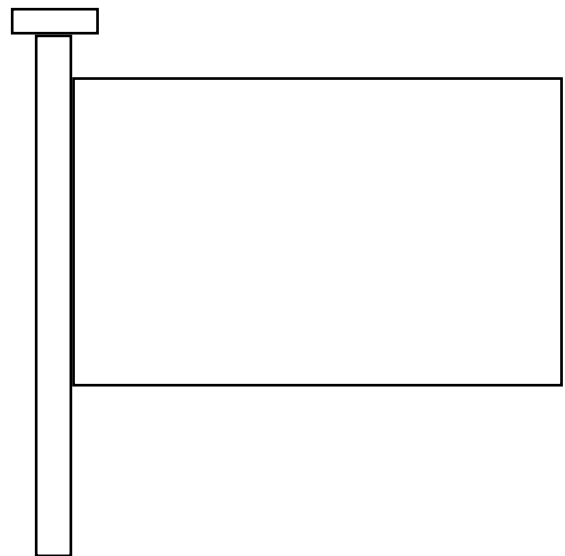
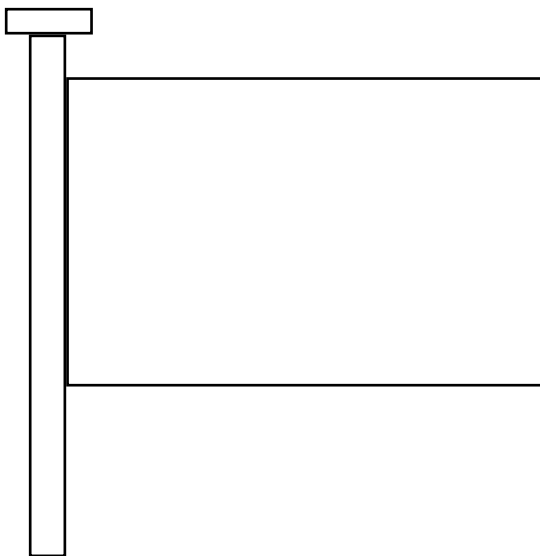
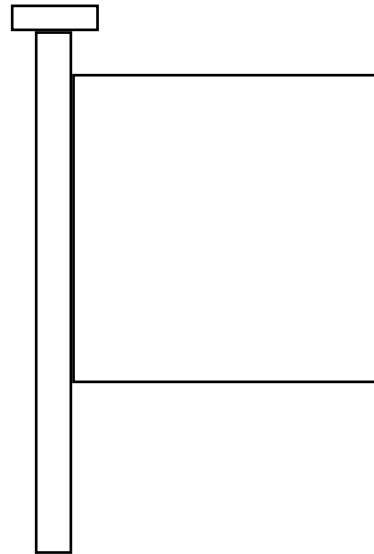
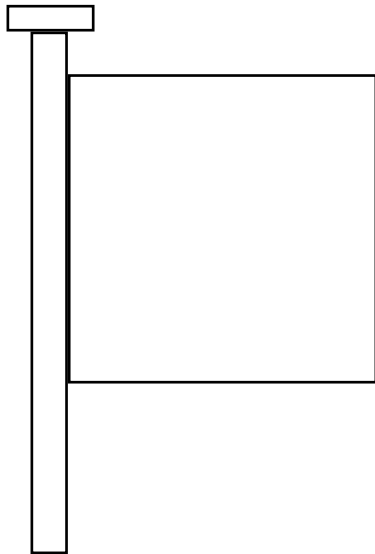


Draw a stick man about half as big as this one:

Quarters



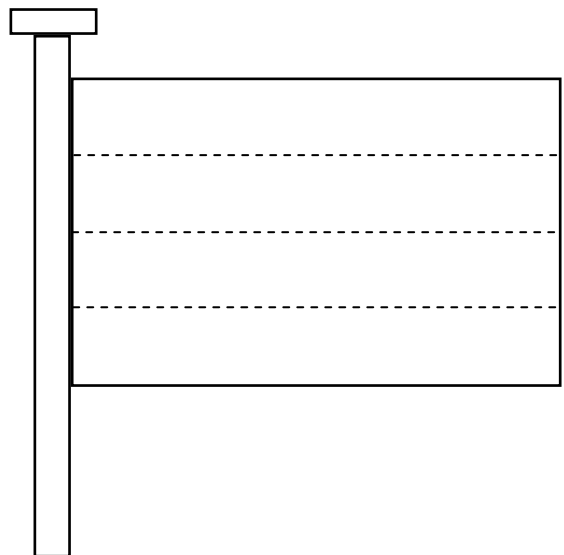
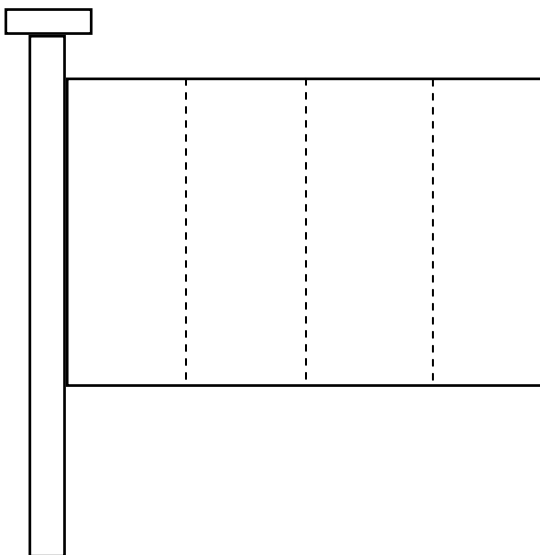
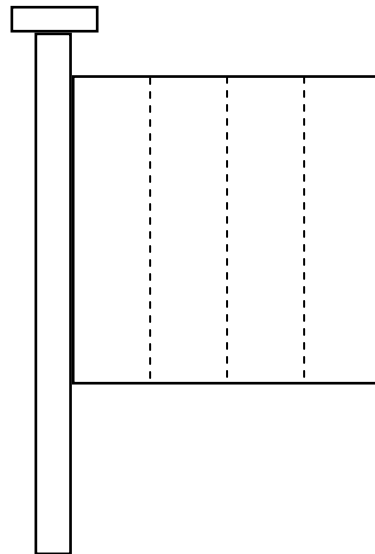
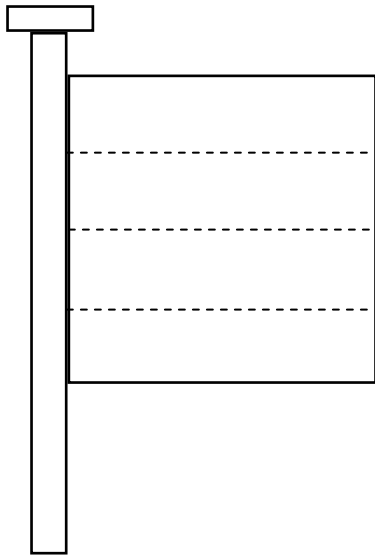
Colour a **quarter** of each flag **red**.
Colour a **quarter** of each flag **blue**.
Colour a **quarter** of each flag **green**.
Colour a **quarter** of each flag **yellow**.



Quarters

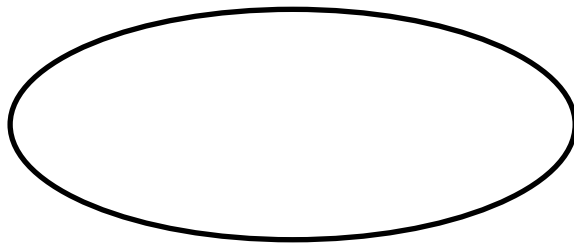
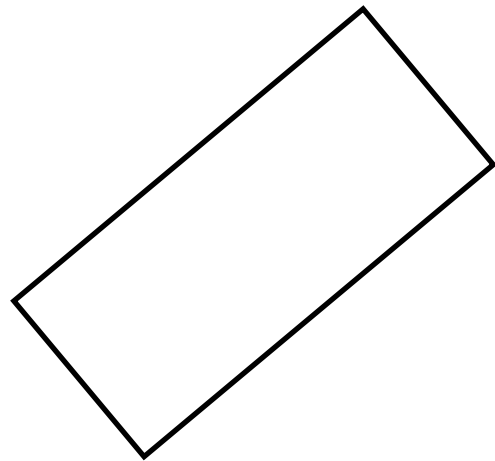
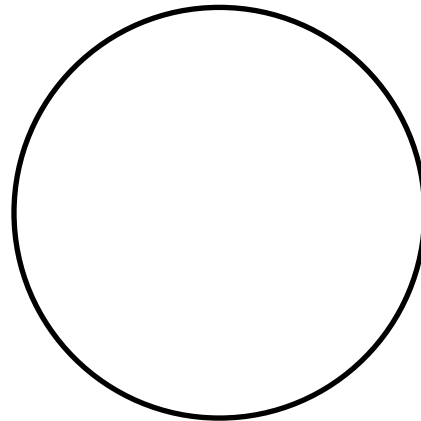
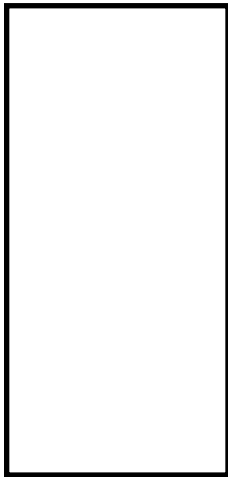


Colour **three quarters** of each flag **red**.
Colour a **quarter** of each flag **yellow**.



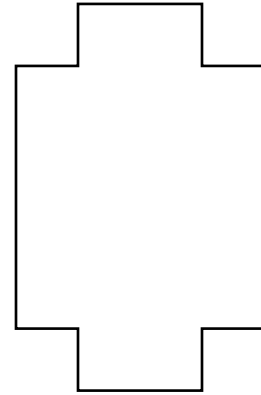
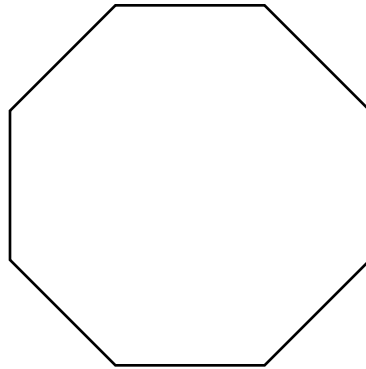
Quarters

Draw lines through these shapes to cut them into quarters:

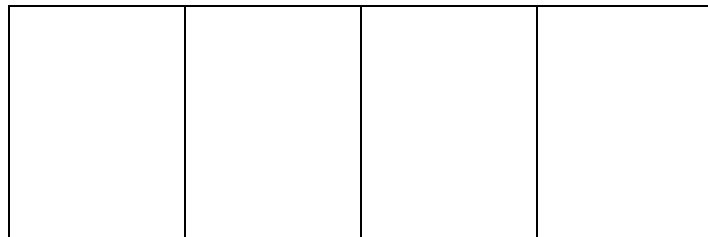
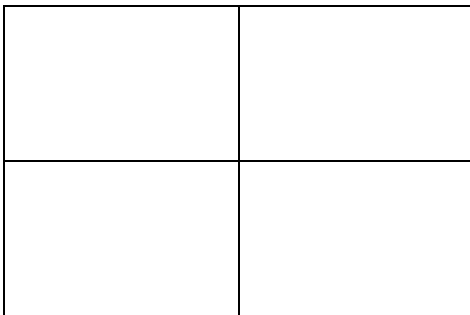


Draw some shapes of your own and colour a quarter of each.

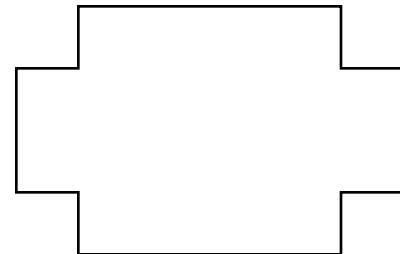
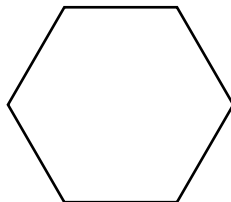
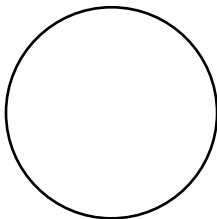
Shade $\frac{1}{4}$ of these shapes:



Shade $\frac{2}{4}$ of these shapes:



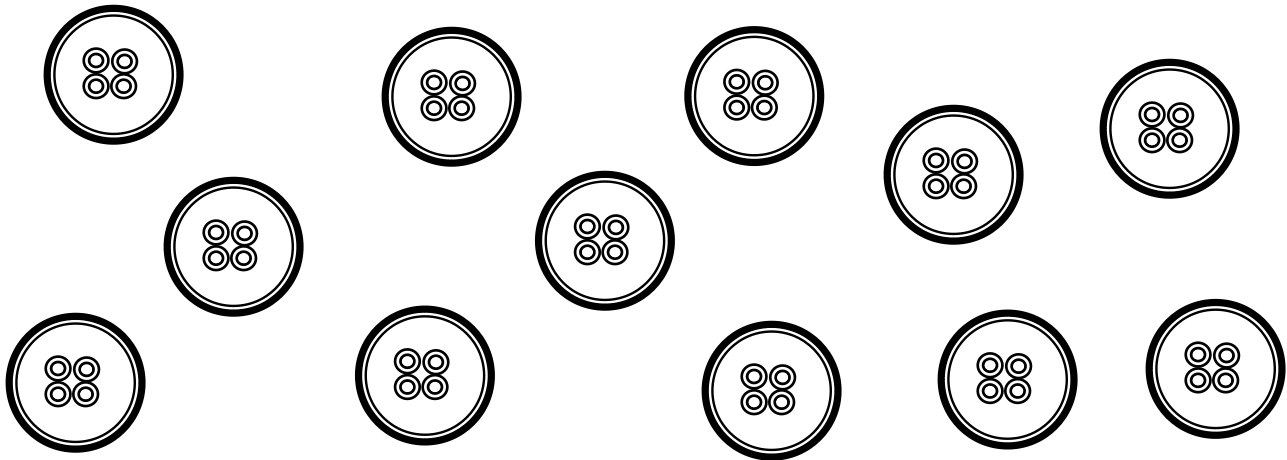
Shade $\frac{3}{4}$ of these shapes:



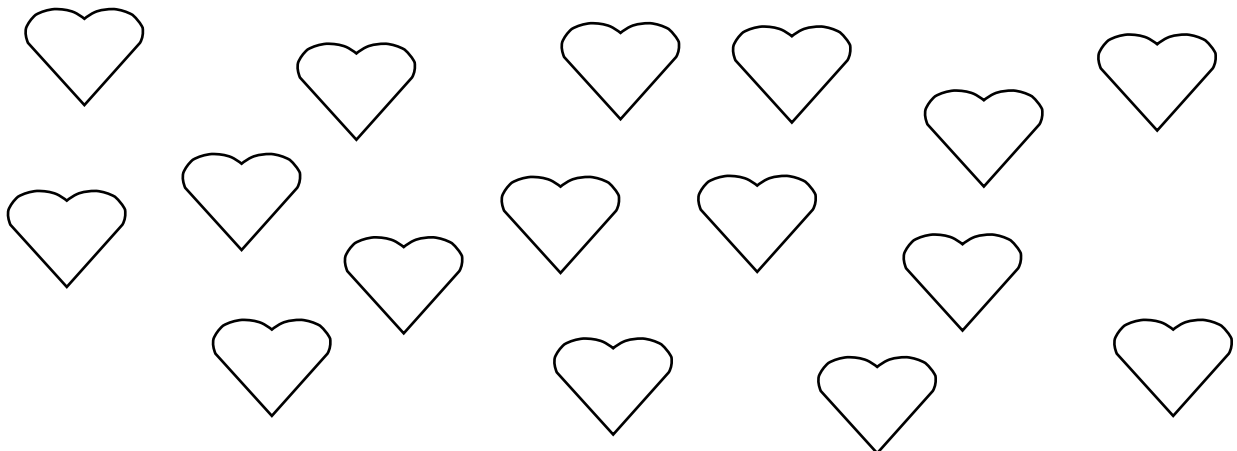
Quarters



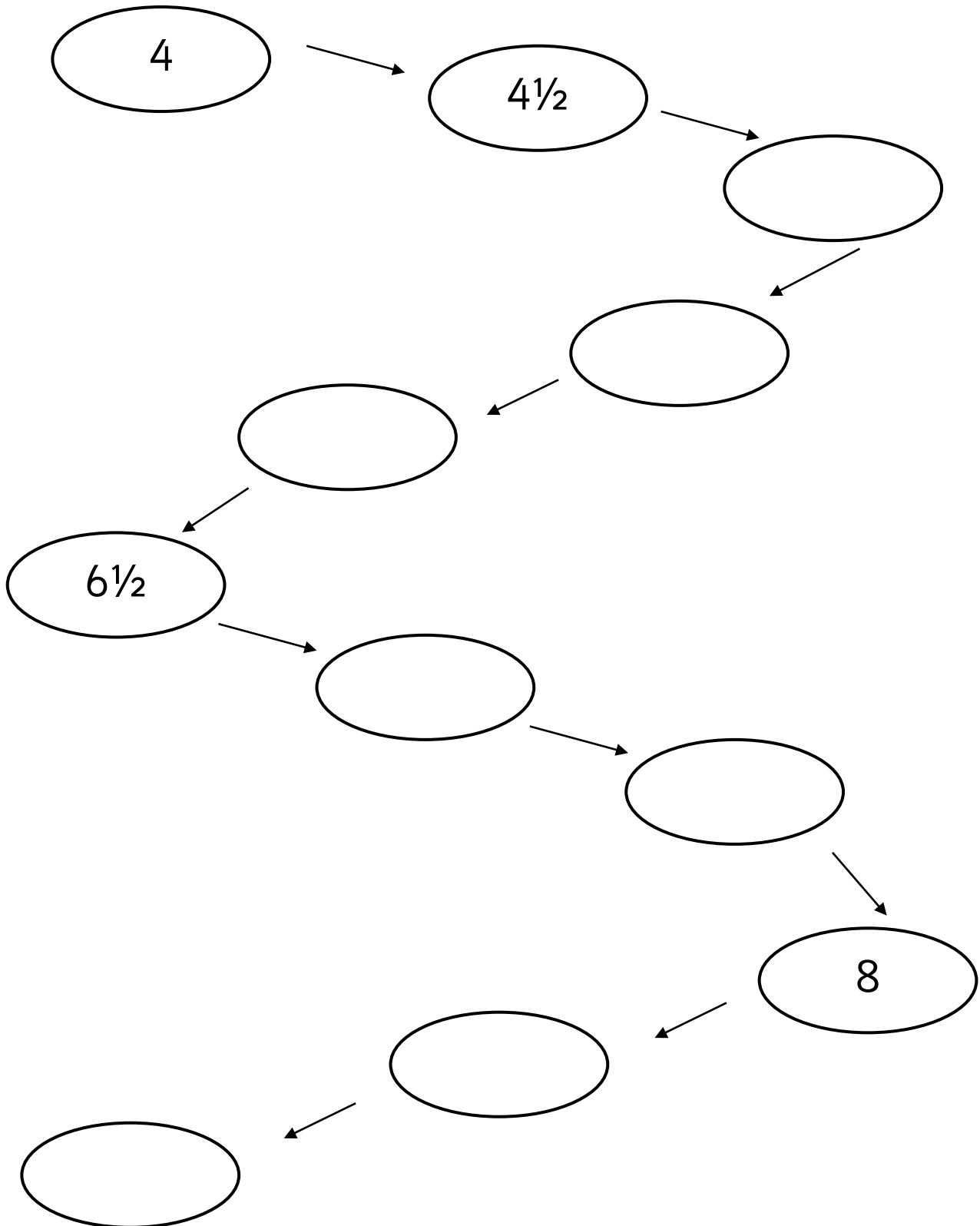
Colour a quarter of these buttons.



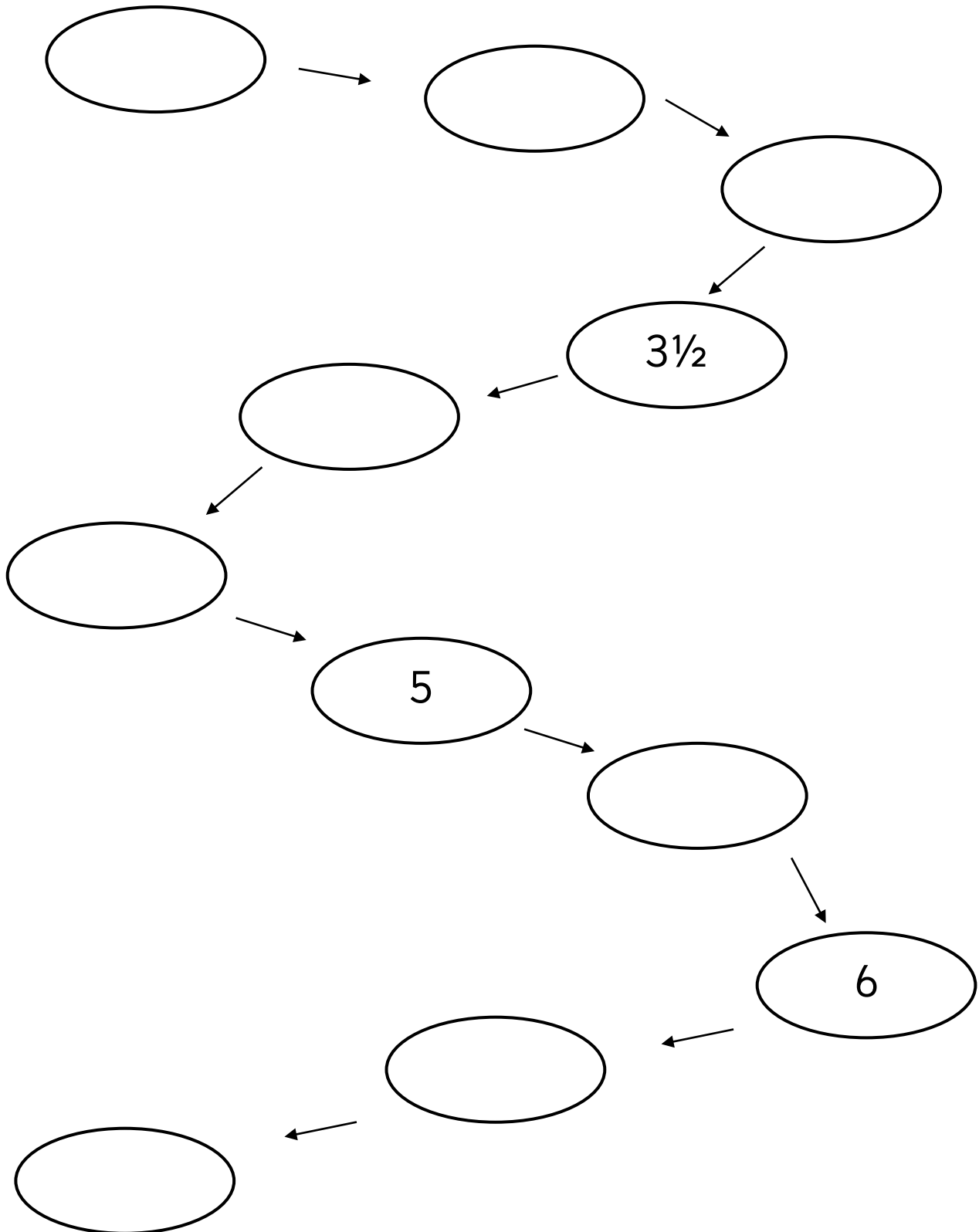
Now put a ring round a quarter of these hearts:



Counting in halves



Counting in halves



Quarters

How many ways can you colour three quarters of this shape?

