In the crèche

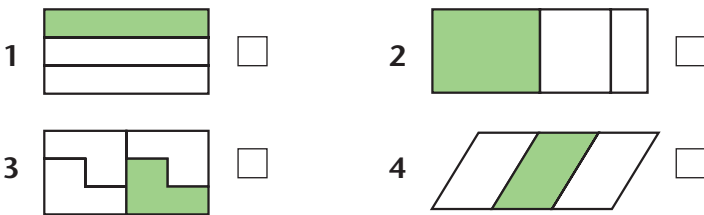Andreas and Frieda are playing in the crèche.

They are practising filling in shapes carefully, without going over the lines.

Each of these shapes is divided into three **equal parts**. One out of three, or one-third, is coloured. This is written as $\frac{1}{3}$.
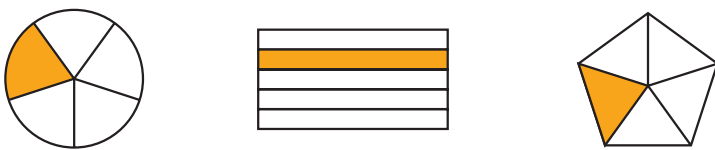
Activity 8

Tick the shapes where $\frac{1}{3}$ of the shape is coloured.
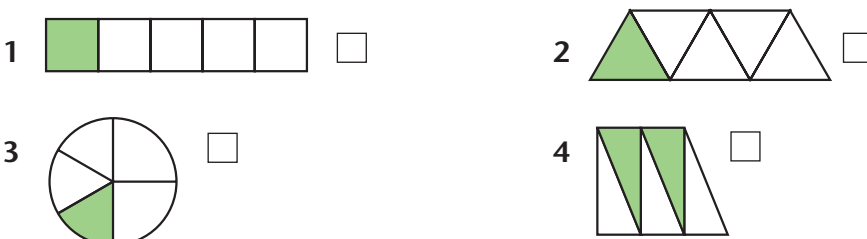
1 ☐   2 ☐

3 ☐   4 ☐

Each of these shapes is divided into five equal parts. One out of five, or one-fifth, is coloured. This is written as $\frac{1}{5}$.

Activity 9

Tick the shapes where $\frac{1}{5}$ of the shape is coloured.
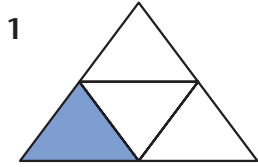
1 ☐   2 ☐

3 ☐   4 ☐

Tip

The number on the bottom of the fraction tells us how many equal parts the picture is divided into.
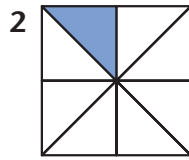
This shape is divided into five equal parts. One part is shaded. The fraction is $\frac{1}{5}$.
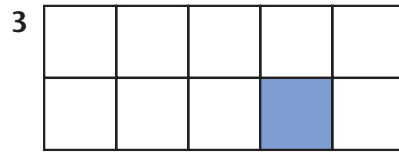
🎧 Activity 10

For each of the following, write down the fraction that is coloured.

1

Fraction coloured ☐

2

Fraction coloured ☐

3

Fraction coloured ☐

This shape is divided into five equal parts.
Two of the parts are coloured. The fraction is $\frac{2}{5}$.
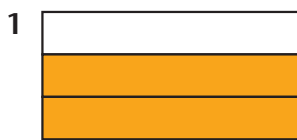

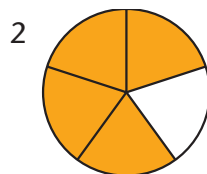$\dfrac{2}{5}$ ⟵ the number of parts coloured
⟵ the total number of equal parts

> **Tip**
> The number on the top of the fraction tells you how many parts are coloured.

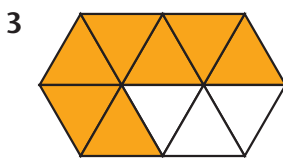### 🎧 Activity 11

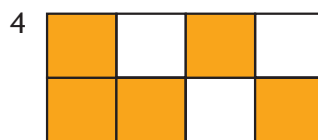For each of the following write down the fraction that is coloured.

1

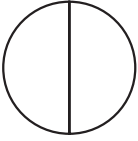Fraction coloured ☐

2

Fraction coloured ☐

3

Fraction coloured ☐

4
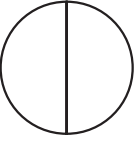
Fraction coloured ☐
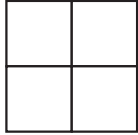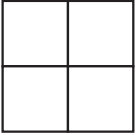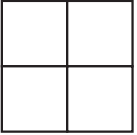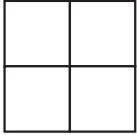
Fair shares

Activity 12
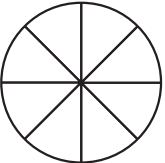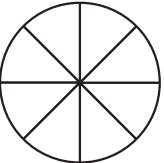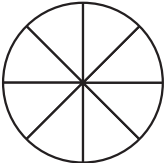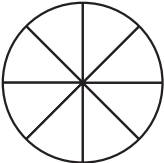
1 On these shapes shade
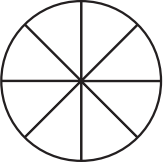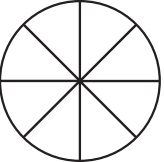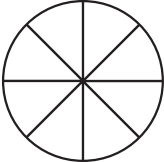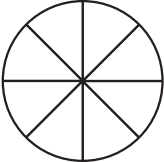
a $\frac{1}{2}$

b $\frac{2}{2}$

2 On these shapes shade

a $\frac{1}{4}$

b $\frac{2}{4}$

c $\frac{3}{4}$

d $\frac{4}{4}$

3 On these shapes shade

a $\frac{1}{8}$

b $\frac{2}{8}$

c $\frac{3}{8}$

d $\frac{4}{8}$

e $\frac{5}{8}$

f $\frac{6}{8}$

g $\frac{7}{8}$

h $\frac{8}{8}$

4 What do you notice about the shapes shaded as $\frac{2}{2}$, $\frac{4}{4}$ and $\frac{8}{8}$?

....

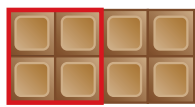**5** What do you notice about the shapes shaded as $\frac{1}{2}$, $\frac{2}{4}$ and $\frac{4}{8}$?

....

Activity 13

Andreas and Frieda share a bar of chocolate.
Andreas says they should each have $\frac{1}{2}$.

One of the carers says they should each have $\frac{4}{8}$.
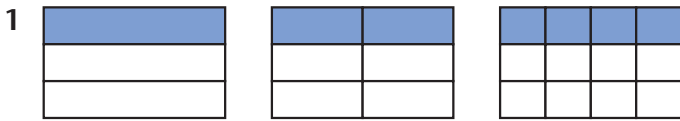Who is right?

Of course, they are both right because $\frac{1}{2}$ and $\frac{4}{8}$ are the same amount.
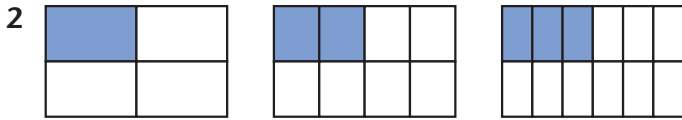
The fractions $\frac{1}{2}$ and $\frac{4}{8}$ are the same. They are called **equivalent fractions**.

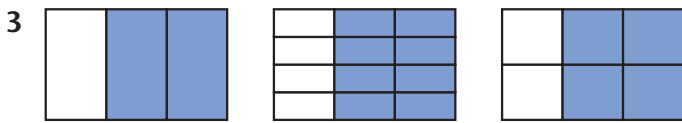Here are some other fractions that are equivalent to $\frac{1}{2}$ and $\frac{4}{8}$.

You can see from the diagrams that the same amount is shaded each time.
All these fractions are equivalent.

1

Use these diagrams to find some fractions that are equivalent to $\frac{1}{3}$.

2

Use these diagrams to find some fractions that are equivalent to $\frac{1}{4}$.
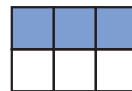
3

Use these diagrams to find some fractions that are equivalent to $\frac{2}{3}$.

4 Circle two fractions that are equivalent. Draw diagrams to help.

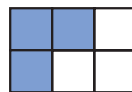**a** $\frac{3}{4}$ $\frac{2}{3}$ $\frac{4}{8}$ $\frac{5}{7}$ $\frac{4}{6}$

b $\frac{2}{10}$ $\frac{9}{11}$ $\frac{2}{9}$ $\frac{5}{6}$ $\frac{1}{5}$

c $\frac{3}{4}$ $\frac{2}{5}$ $\frac{6}{15}$ $\frac{3}{7}$ $\frac{7}{20}$

Activity 14

Here is one way to shade exactly one half of the shape.

Here is another way to shade exactly one half.

How many other ways can you find to shade exactly one half of the shape?

Some blank shapes are provided to help you.