TEACHER'S NOTES UNIT 1 Schofield & Sims

Know and use the notation for quarters of shapes



Starting point

Show the first column of the **Starting point** graphic. Ask:

- How many equal parts have these whole items been split into? [4] Encourage the children to see that each whole has been split into four equal parts. If the children do not suggest it, introduce the term 'quarter'.
- What does 'a quarter' mean? Remind the children that quarters are produced when something is split into four parts and stress that all four parts must be equal.
- What do we call one/two/three/four of these parts? [one-quarter, two-quarters, threequarters, four-quarters] Remind the children that a part of a whole, such as a quarter, is called a 'fraction'.

Practical resources

- Use objects that can be cut into quarters, such as apples, cakes, lengths of celery, string or a ball of modelling clay.
- Use objects that can be folded into quarters, such as paper shapes, greetings cards or bank notes.
- Use objects where four identical pieces can be joined to make a whole, such as plastic shapes, collections of cubes or symmetry resources.

Reveal the remaining columns. Draw the children's attention to the 4 on the bottom of each fraction. Explain that this indicates quarters and that the number on the top shows how many quarters there are. Ask:

• What do you notice about the fraction four-quarters? [It is the same as one whole.]

Use some of the ideas in the Practical resources box to reinforce the children's understanding of quarters and the relevant notation.

Key point: The word 'quarter' is used when a whole is split into four equal parts. One-, two-, three- and four-quarters are written as $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$ and $\frac{4}{4}$.

Spot the mistake

Ask:

- What fraction is written as $\frac{3}{4}$? [three-quarters]
- The statement says that $\frac{3}{4}$ is shaded'. Is this true? [no]
- What is the mistake? [The 4 on the bottom of the fraction should show the number of parts altogether rather than the number of parts that are not shaded.]
- Can someone sketch a shape where three-quarters is shaded?



✓ Good to go?

Answers: a) $\frac{3}{4}$ b) $\frac{1}{4}$ c) $\frac{2}{4}$ d) $\frac{4}{4}$

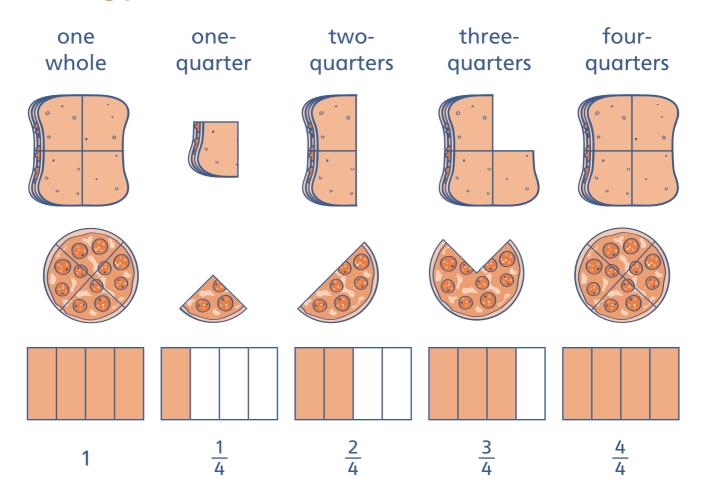
Pupil book practice

Pages 4 and 5

This unit focuses on quarters as areas of shapes and the notation $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$ and $\frac{4}{4}$. The Challenge questions develop understanding of four-quarters as one whole, and of three-quarters and one-quarter being added to make one whole. Questions involving two-quarters and one-half help the children to begin to understand the relationship between these fractions. These concepts are explored further in later units.

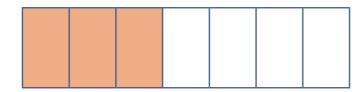


Starting point





Spot the mistake



 $\frac{3}{4}$ is shaded.



Good to go?

What fraction of each square is shaded?

