Lesson 29

What is a fraction? part-whole review

MODULE 3 · FRACTIONS AND FIRST DECIMALS NUMBER

HOW TO ANSWER TODAY

- **Fraction of a quantity.** Divide the quantity by the bottom number (denominator). Multiply by the top number (numerator).
  3/5 of 20 → 20 ÷ 5 = 4, × 3 = 12
- **Lowest terms.** Divide top and bottom by the same number until you can't go any further.
  12/18 ÷ 6 → 2/3

TRY IT ON THE LINE

Slice and shade each circle to show the fraction.

1. Cut the first circle into the number of equal parts the fraction needs.
2. Shade the right number of parts.
3. Write the fraction underneath the circle.

PRACTICE

1. At granny's farm there are **11** calves in the back field, all the same age. **3** of the calves are black and the rest are brown. What fraction of the calves are black?

   > A shape is divided into 11 equal parts and 3 are shaded. What fraction of the shape is shaded?

2. Aoife cuts a tray of flapjacks into **7** equal pieces for her sleepover. Her friends eat **5** of the pieces before bedtime. What fraction of the tray has been eaten?

   > A shape is divided into 7 equal parts and 5 are shaded. What fraction of the shape is shaded?

CHALLENGE

1. Mr Murphy's class library has a display shelf split into **15** equal sections for the books returned this week. The class wants to fill **4/5** of the shelf with returned books. How many of the **15** sections should they fill?

   > To shade 4/5 of a shape divided into 15 equal parts, how many parts must be shaded?

2. At Camogie training under the floodlights, the coach says **3/4** of the squad have brought their helmets. There are **20** girls at training in total. Fill in the missing number to show how many girls that is: **3/4** = ?/ **20**.