

Comparing fractions with the same bottom number

MODULE 3 · FRACTIONS AND FIRST DECIMALS NUMBER

HOW TO ANSWER TODAY

- **Equivalent fractions.** Whatever you multiply (or divide) the bottom by, do the same to the top.
 $2/5 = ?/15$. Bottom $\times 3$, so top $\times 3 \rightarrow 6/15$
- **Compare fractions.** Make the bottom numbers (denominators) the same first. Then compare the top numbers.
 $1/4$ and $1/3 \rightarrow 3/12$ and $4/12 \rightarrow 1/4 < 1/3$
- **Lowest terms.** Divide top and bottom by the same number until you can't go any further.
 $12/18 \div 6 \rightarrow 2/3$

 TRY IT ON THE LINE

Use the fraction strips to compare and shade the fractions in the lesson.

[illegible]

1. Shade each fraction the lesson asks for.
2. Line two strips up to see which fraction is bigger.
3. Find two strips that shade the same amount (equivalent fractions).

 PRACTICE

- 1** At the club hurling match, the pitch is marked into **6** equal zones and **$\frac{1}{6}$** of the zones are used for the warm-up. The coach now wants to mark the same pitch into **12** equal zones instead. How many of the **12** zones will be used for the warm-up, so that **$\frac{1}{6} = ? / 12$** ?

Fill in the missing number: $\frac{1}{6} = \frac{?}{12}$

- 2 Three pupils in 4th class check how full their water bottles are at lunchtime. Aoife's bottle is $\frac{9}{10}$ full, Cian's is $\frac{2}{5}$ full, and Saoirse's is $\frac{7}{10}$ full. Order the bottles from smallest amount to largest amount.

- 1 At Camogie training under the floodlights, the coach says $\frac{3}{4}$ 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: $\frac{3}{4} = \frac{?}{20}$.

- 2 Aoife is at a sleepover and four friends each have a packet of biscuits. Cara has eaten $\frac{3}{4}$ of her packet, Oisín has eaten $\frac{7}{8}$, Niamh has eaten $\frac{1}{5}$ and Tadhg has eaten $\frac{11}{12}$. Order the amounts eaten from smallest to largest.