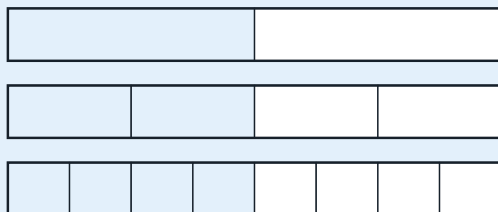


Equivalent fractions and simplest form

MODULE 3 · FRACTIONS, DECIMALS AND PERCENTAGES NUMBER

Multiplying or dividing **top and bottom by the same number** makes an **equivalent fraction**.
Dividing by the HCF gives **simplest form**.



- $6/8 = 3/4$ (divide both by 2).
- $2/3 = 4/6 = 8/12$ (multiply both).

WRITE 18/24 IN ITS SIMPLEST FORM

- 1 Find the HCF of 18 and 24 → 6.
- 2 Divide top and bottom by 6: $18 \div 6 = 3$, $24 \div 6 = 4$.
- 3 Simplest form is $3/4$.

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 $\times 3 \rightarrow 6/15$
- **Lowest terms.** Divide top and bottom by the same number until you can't go any further.
 $12/18 \div 6 \rightarrow 2/3$

MATCH-UP

Match each fraction to its simplest form.

- a. $6/8$
- b. $4/10$
- c. $6/9$
- d. $5/20$
- e. $8/10$

- 1. $4/5$
- 2. $3/4$
- 3. $2/5$
- 4. $2/3$
- 5. $1/4$

PRACTICE

- 1 On a sponsored cycle, Tadhg plans to complete **28** laps of the cycle path in Phoenix Park. He has finished **$3/4$** of his laps so far. Fill in the missing number to show how many laps he has cycled: **$3/4 = ?/28$** .
- 2 In 5th class, **$11/12$** of the pupils volunteered for the school-bag rota for the term. The teacher writes the same fraction with **60** as the denominator on the chart. Fill in the missing number: **$11/12 = ?/60$** .