

Adding and subtracting fractions with the same denominator

MODULE 3 · FRACTIONS, DECIMALS AND PERCENTAGES NUMBER

1/5 + 2/5 (SAME DENOMINATOR)

- 1 Same denominator — just add the numerators: $1 + 2 = 3$.
- 2 Keep the denominator the same: **5**.
- 3 Answer: **3/5**.

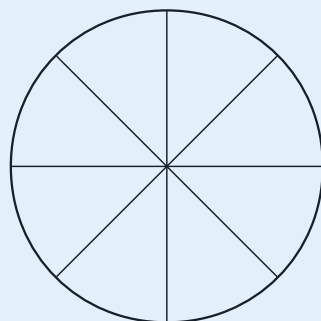
HOW TO ANSWER TODAY

- **Same-bottom fractions.** Bottoms already match → add or subtract the tops. Write the answer in lowest terms.

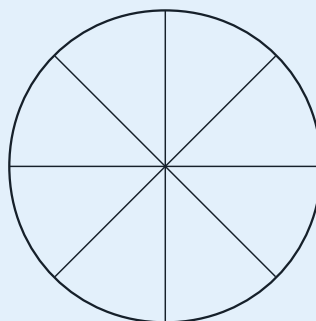
$$3/5 + 1/5 = 4/5 \quad 5/8 - 3/8 = 2/8 = 1/4$$

TRY IT ON THE LINE

Use a different pie for each task. Shade what you start with, then add or take away slices to find the answer.



Pie A — add



Pie B — subtract

1. Pie A: shade $3/8$, then ADD another $2/8$ in a different colour. Total: ____ / 8
2. Pie B: shade $6/8$, then cross out $3/8$. Left: ____ / 8
3. Stretch (no pie): $5/8 + 7/8$ — too many slices for one pie! How many full pies? ____ Left over: ____ / 8

PRACTICE

- 1 On the 5th class nature walk, Oisín fills $4/5$ of his first collection bag with autumn leaves. Then he fills $4/5$ of a second bag with conkers. How many bags' worth of nature finds has he collected in total?
- 2 On the 5th class nature walk through the local park, Oisín fills $3/5$ of his sketch page with drawings of leaves in the morning. After lunch he fills another $2/5$ of the same page with drawings of berries. How much of his page is now covered?

CHALLENGE

- 1 Oisín brings a bag of oats to feed the ducks at the local pond. He scatters $9/10$ of the bag near the big duck family, then the wind blows $4/10$ of the bag's worth back onto the path before the smaller ducks can reach it. What fraction of the bag actually fed the ducks?
- 2 5th class fill $6/7$ of a seed tray with carrot seeds in the school polytunnel. By the end of the week, the seeds in $5/7$ of the tray have sprouted. What fraction more of the tray is still waiting to sprout?