

Equivalent ratios and simplifying ratios

MODULE 4 · RATIO AND PROPORTION NUMBER

HOW TO ANSWER TODAY

- **Share in a ratio.** Add the ratio parts. Divide the total by that number to find ONE part. Multiply each ratio number by it.

Share €90 in 2:3 → 5 parts, $€90 \div 5 = €18$ per part → €36 and €54

 STRETCH PROBLEMS

- 1 In the school garden, 5th class plant the raised beds with carrots and onions in the ratio **1:2**. The smaller bed has **8** rows of carrots. How many rows of onions are in the bigger bed to keep the same ratio?

Fill in the missing number to make equivalent ratios: $1:2 = 8:?$

- 2 5th class bake 70 buns for the cake sale to raise money for the Junior Infants' new playground. They split the buns between the school hall stall and the yard stall in the ratio 2:5. How many buns go to each stall?

- 3 Mr Ó Briain runs a daily question for 5th class each morning. The ratio of pupils who get it right to pupils who get it wrong is **1:2**. On Friday, **5** pupils got it right. If the ratio stays the same, how many got it wrong?

Fill in the missing number to make equivalent ratios: $1:2 = 5:?$

- 4 Sean is drawing a Cumann na mBunscol pitch to scale on squared paper. The real pitch uses a ratio of **5 metres** across to **2 metres** down, and on his drawing **20** squares across must match the same shape. How many squares down should he draw to make the ratio **5:2** equal to **20** :?

Fill in the missing number to make equivalent ratios: $5:2 = 20:?$

- 5 Cian, Saoirse and Tadhg share out 35 library books to carry back to the classroom in the ratio 1:2:4. How many books does each child carry?