

Proportion – scale up the recipe

MODULE 3 · FRACTIONS, DECIMALS AND PERCENTAGES

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

 TRY IT ON THE LINE

Each strip is one ingredient. Scale the recipe by stretching each ingredient strip by the same factor.

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Recipe for 4 pupils:
2 cups flour, 1 cup milk, 2 eggs

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Scaled for 8 pupils ($\times 2$):
_____ cups flour, _____ cup milk, _____

[illegible]

Scaled for 12 pupils (×3):
_____ cups flour, _____ cups milk, _____

1. Recipe makes pancakes for 4 pupils.
2. Scale $\times 2$ to serve 8 pupils.
3. Scale $\times 3$ to serve 12 pupils.

 PRACTICE

- 1** Aoife's granny has a brown bread recipe that serves **3** people and uses **240 g** of flour. Aoife wants to bake enough for **9** people at the family gathering. How much flour does she need?

A recipe for 3 people uses 240 g of flour. How much flour is needed for 9 people?

- 2 Tadhg is baking brown bread with 5th class for the orchard picnic. The recipe serves 3 people and uses 120 g of flour. How much flour does Tadhg need to serve 9 people?

A recipe for 3 people uses 120 g of flour. How much flour is needed for 9 people?

ALWAYS, SOMETIMES, NEVER

Always true, sometimes true, or never true? Write A, S or N.

- a. Doubling a recipe doubles every ingredient.
- b. If you halve the ingredients, you bake half the cake.
- c. Ratios and fractions describe the same thing.
- d. Within a single ratio, a bigger number means a bigger share.
- e. If 2 cakes need 4 eggs, 5 cakes need 10 eggs.
- f. If a recipe scales, the cooking time scales the same way.