

Proportion – scale up the recipe

ANSWER KEY

a) $\times 2$: 4 cups flour, 2 cups milk, 4 eggs.

b) $\times 3$: 6 cups flour, 3 cups milk, 6 eggs.

Q1: 720 g

Q2: 360 g

a) **Always** — Proportion preserves ratio — every quantity doubles.

b) **Sometimes** — True in maths; in real life some ingredients (1 egg) don't halve.

c) **Sometimes** — 1:1 means '1 of every 2', so $1/2$. 1:3 means '1 of every 4', so $1/4$.

d) **Always** — In 2:5, the share marked 5 is bigger than the share marked 2.

e) **Always** — 2 cakes : 4 eggs = 1:2. So $5 \times 2 = 10$ eggs.

f) **Never** — Cooking depends on volume and surface area — not a simple proportion.

EXTENSION SHEET · STRETCH ANSWERS

S1: €24 + €36 + €60

S2: €18 + €27 + €45

S3: 9 + 45

S4: 5 + 10 + 20

S5: 20 + 50