

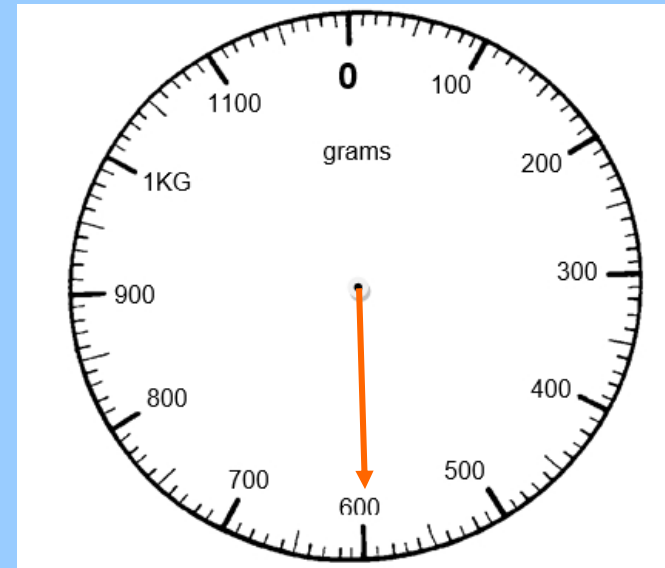
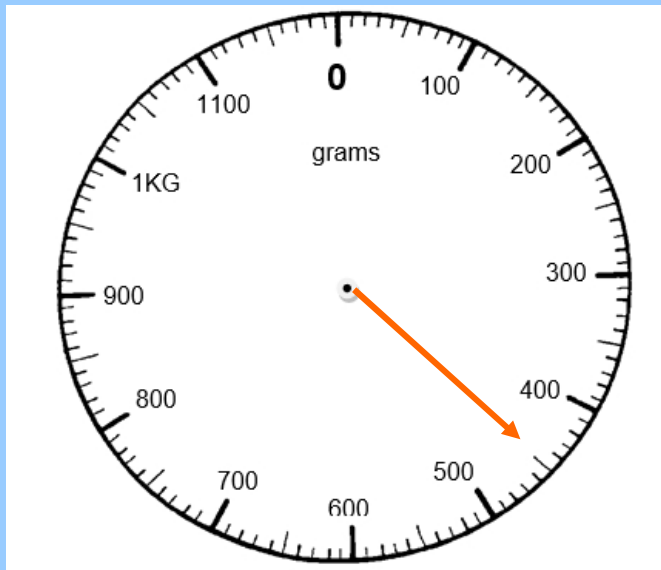
Stage 2



Stage 2 – Addition and Subtraction

- Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.

Emily is making a cake. She puts flour on the scales then she adds sugar. How much sugar does she add?



Before

450g

After

600g

?



Stage 2 – Addition and Subtraction

Claire starts with 87p and earns 50p doing chores. She needs £1.38 more to buy a packet of pens. How much do the pens cost?



Questions in a similar style to ‘Stage 1’ but with additional challenges such as the converting of measures:

The bag of flour weighs $\frac{3}{4}$ kg. Nicola uses 600g of flour. How much flour is left?



Stage 2 – Addition and Subtraction

Amber, Barry and Cathy run a 50m race. Barry's time is 13 seconds. Amber finishes 5 seconds before Barry. Cathy finishes 3 seconds after Barry. What is the total time taken by all three children?



Stage 2 – Multiplication and Division

- Including multiplying by 0 and 1; dividing by 1; multiplying together three numbers.

Calculate 5×0

?				
0	0	0	0	0

Explore alongside concrete ideas such as 5 plates with no biscuits. How many biscuits?

$12 \div 1$

or

12

12		
1	?	1

Note: You do not necessarily need to draw out all of the boxes of 1 here, as long as the intention is clear.

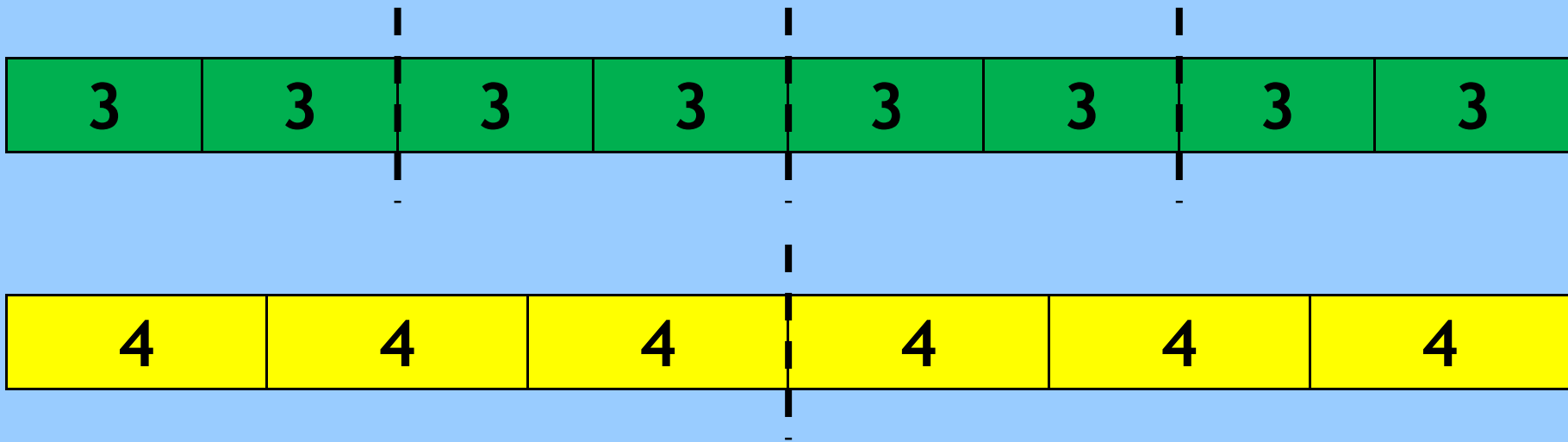


Stage 2 – Multiplication and Division

- Including multiplying by 0 and 1; dividing by 1; multiplying together three numbers.

Multiply three numbers together - Associative law

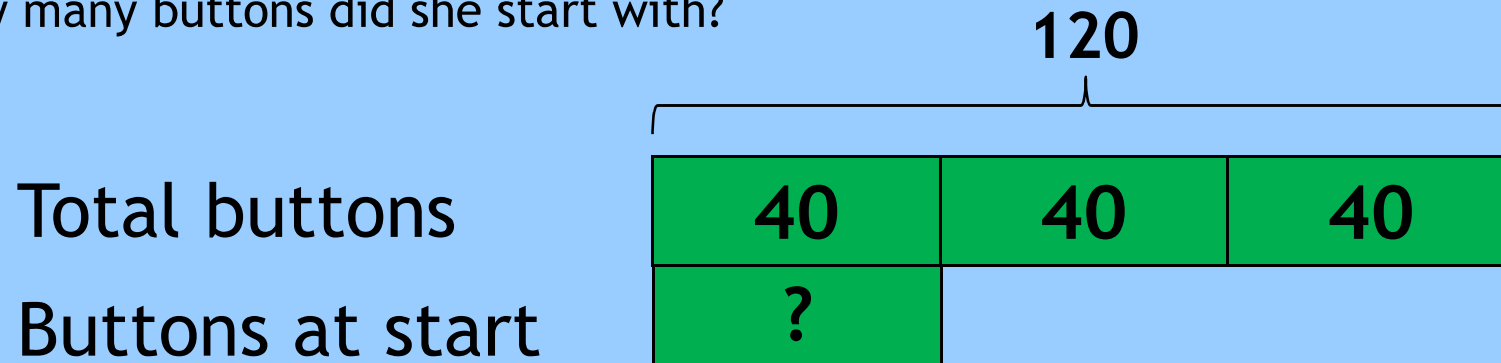
$$(2 \times 3) \times 4 = 2 \times (3 \times 4)$$



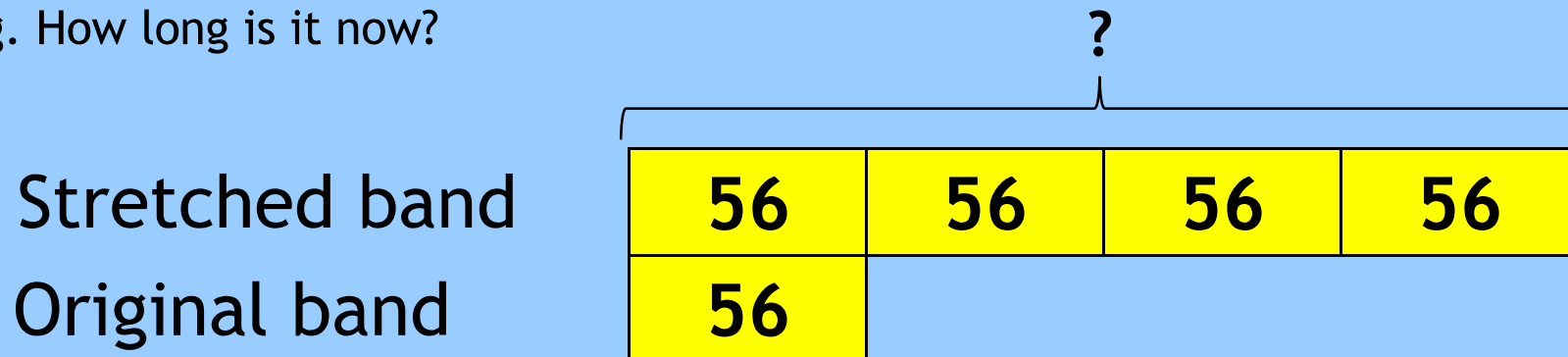
Stage 2 – Scaling

- Solve problems involving multiplication and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.

Louise collects buttons. She bought some new buttons to add to her collection. She now has 120 buttons, which is three times as many buttons as she started with. How many buttons did she start with?

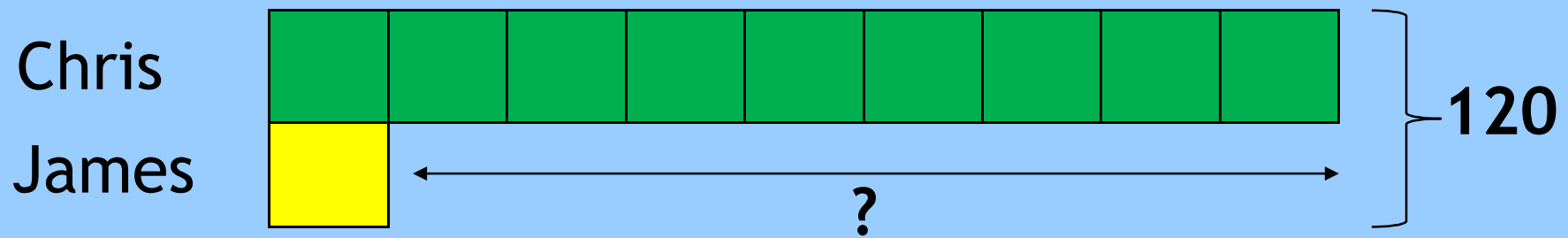


A length of elastic is stretched four times longer than its original size. It was 56cm long. How long is it now?

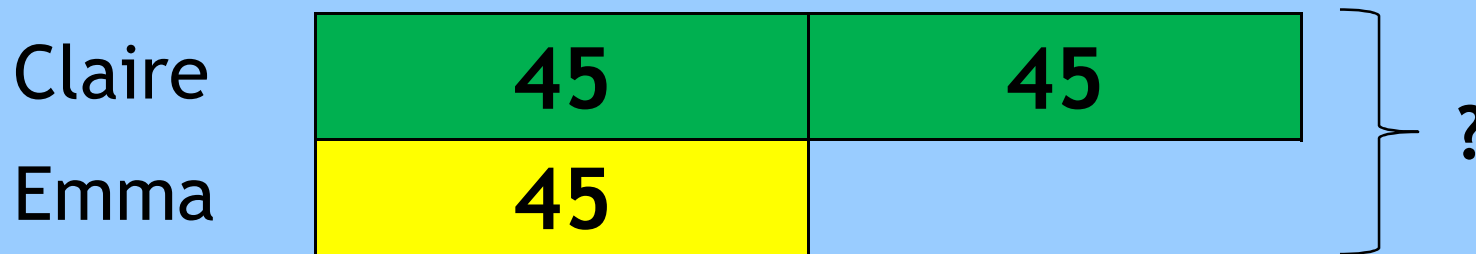


Stage 2 – Correspondence problems

Chris has 9 times as many Lego figures as James. Together they have 120 Lego figures. How many more Lego figures does Chris have than James?



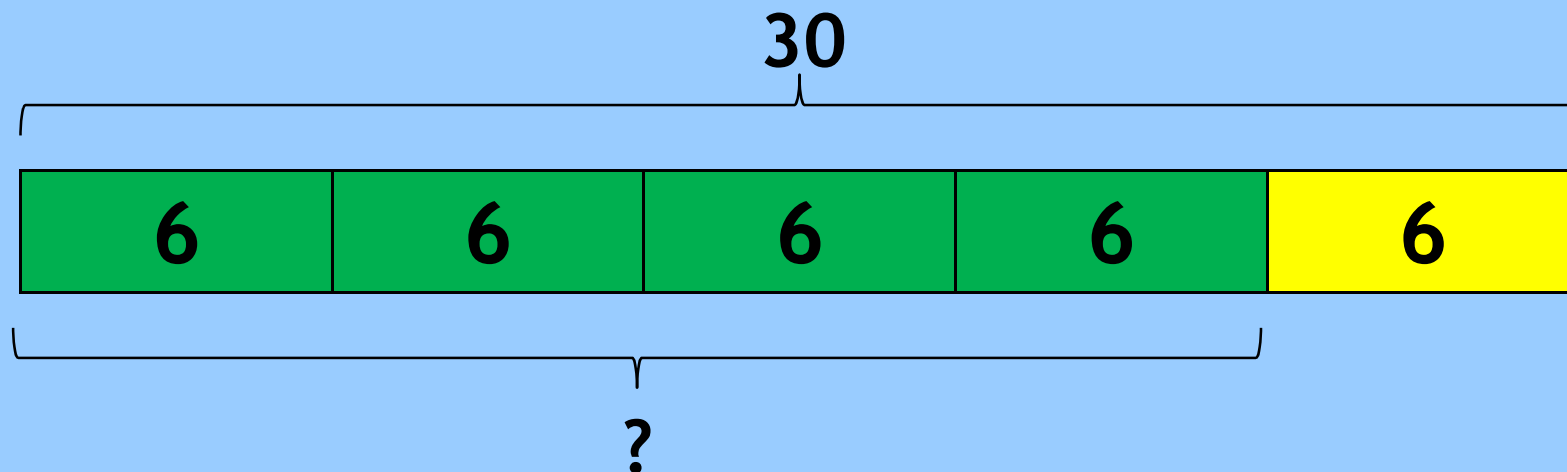
Claire has twice as many stickers as her friend Emma. Claire has 90 stickers. How many stickers do they have altogether?



Stage 2 – Fractions

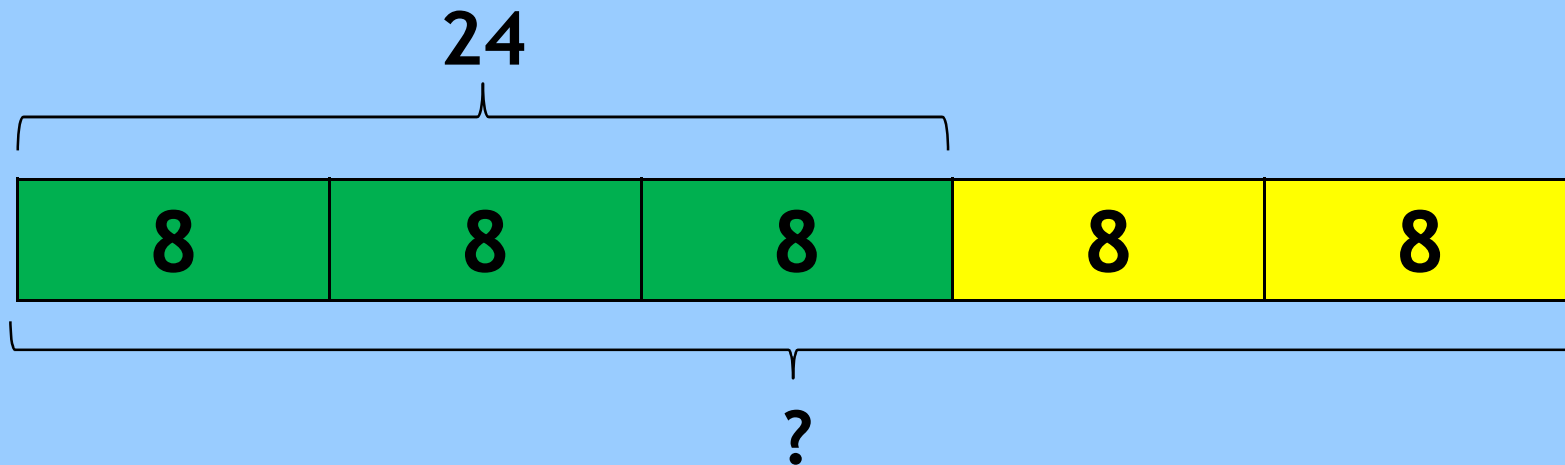
- Recognise and show, using diagrams, families of common equivalent fractions (see Stage 1 progression).
- Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.

Sally buys four-fifths of the shop's apples. If the shop had 30 apples, how many apples did she buy?



Stage 2 – Fractions

James had some football cards. He gave two-fifths away. He now has 24 cards. How many did he have to start with?



- Add and subtract fractions with the same denominator (see Stage 1 progression).

