Discussion Problem
Find the Whole

National Curriculum Objectives:

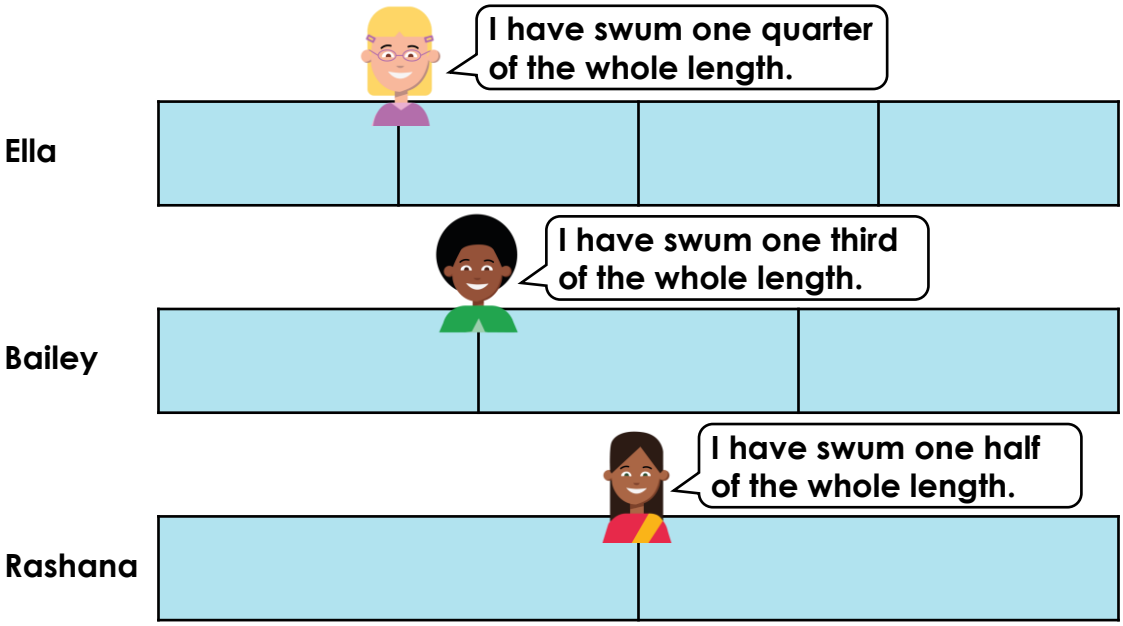
Mathematics Year 2: (2F1a) Recognise, find, name and write fractions 1/3 , 1/4 , 2/4 and 3/4 of a length, shape, set of objects or quantity
Mathematics Year 2: (2F1b) Write simple fractions for example, 1/2 of 6 = 3
Mathematics Year 2: (2F2) Recognise the equivalence of 2/4 and ½

About this resource:

This resource has been designed to provide pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem. There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion. We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

Find the Whole

Ella, Bailey and Rashana are at their swimming lesson. They have each swum a different distance of the pool.



What could the whole length of the swimming pool be in metres and how far has each child swum?

Find two possible answers.

DP

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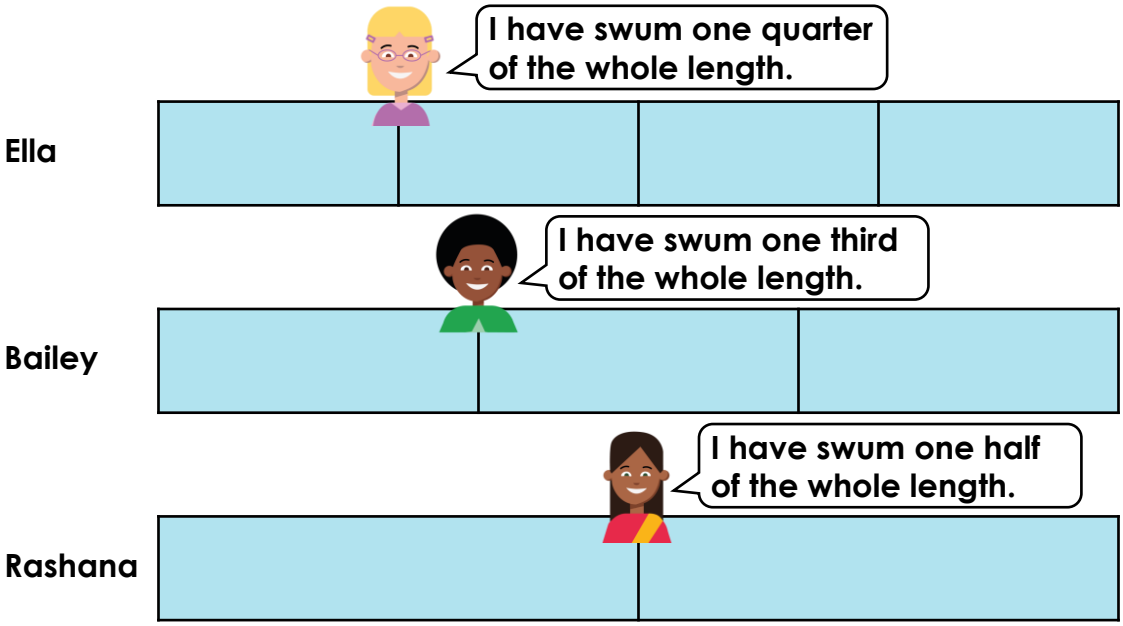

What could the whole length of the swimming pool be in metres and how far has each child swum?

Find two possible answers.

DP

Various answers, for example:

The pool could be 12 metres long.

Ella has swum 3 metres.
Bailey has swum 4 metres.
Rashana has swum 6 metres.

The pool could be 24 metres long.

Ella has swum 6 metres.
Bailey has swum 8 metres.
Rashana has swum 12 metres.