

Maths at West Lodge – Our Vision

All children at West Lodge enjoy Mathematics and are able to see the beauty in it. The spark is lit within them through the use of enriching learning opportunities. Children explore concepts through concrete apparatus, pictorial imagery and link this to abstract ideas and calculations. We believe that all children are capable of understanding and succeeding in Mathematics. Learning best happens when children's misconceptions are understood, addressed and supported through challenging work. Mistakes are expected, reflected upon and treated as a learning opportunity.

Mathematicians **not** number crunchers



The national curriculum for mathematics aims to ensure that all pupils:

- become **fluent** in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- **reason mathematically** by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- **can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking**

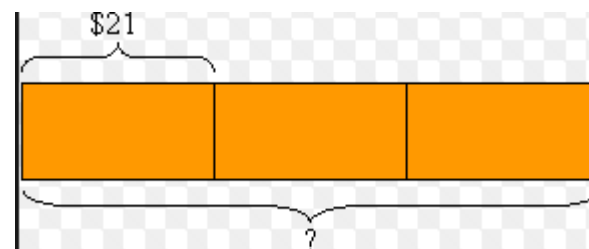
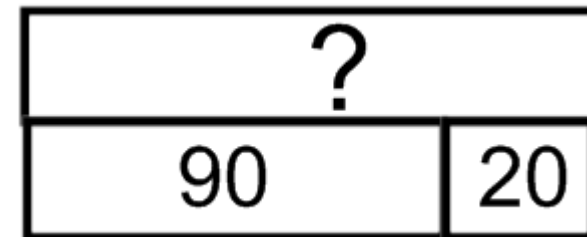
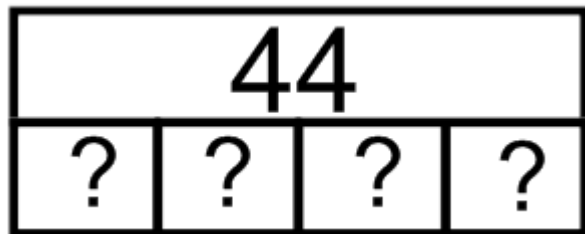
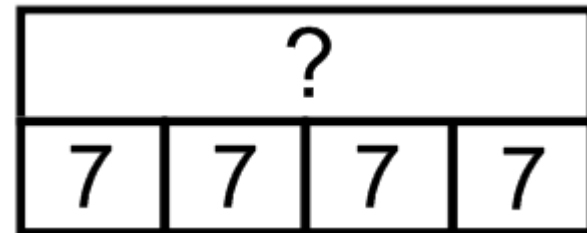
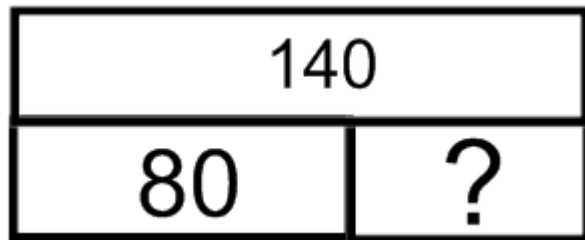
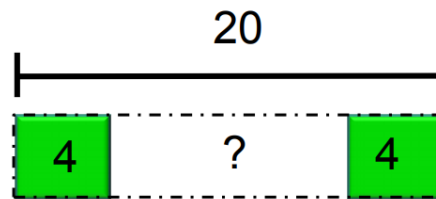


What is bar modelling and why do we use it?

- 70% of mathematical errors come from not being able to read and understand the problem

The Hurdles	Newman's Prompts
Reading	1. Please read the question to me.
Comprehension	2. Tell me what the question is asking you to do.
Transformation	3. Tell me how you are going to find the answer.
Processing Skills	4. Show me what to do to get the answer.
Encoding	5. Now, write down your answer.





Over to our pupils.....



Can you match the bar model to the type of problem being solved?

