

# ADDITION AND SUBTRACTION

## Objective

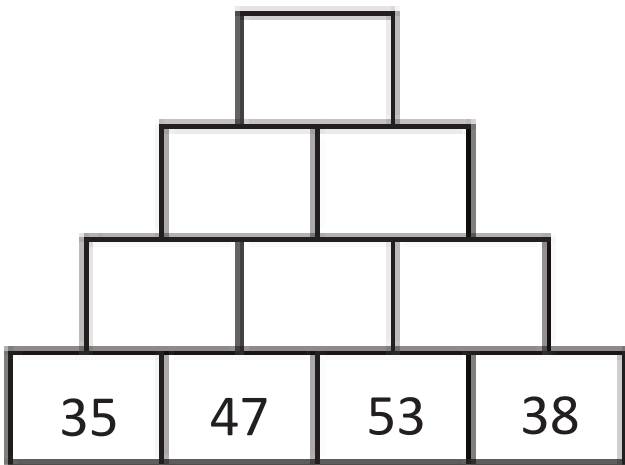
- Add and subtract numbers with up to 4 digits using the formal written methods where appropriate

## Before they tackle the problem, ensure children have...

- Mastered a range of mental addition and subtraction strategies

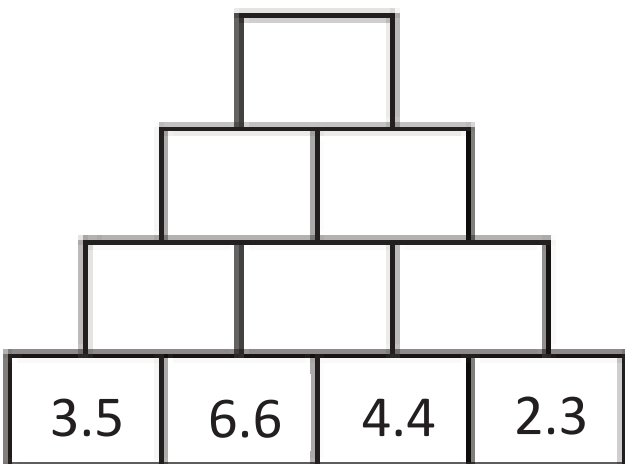
## SETTING THE SCENE

Show the children the pyramids below. Explain that to complete the pyramids the children will need to find the totals of the two boxes below.



Are children using efficient mental strategies?

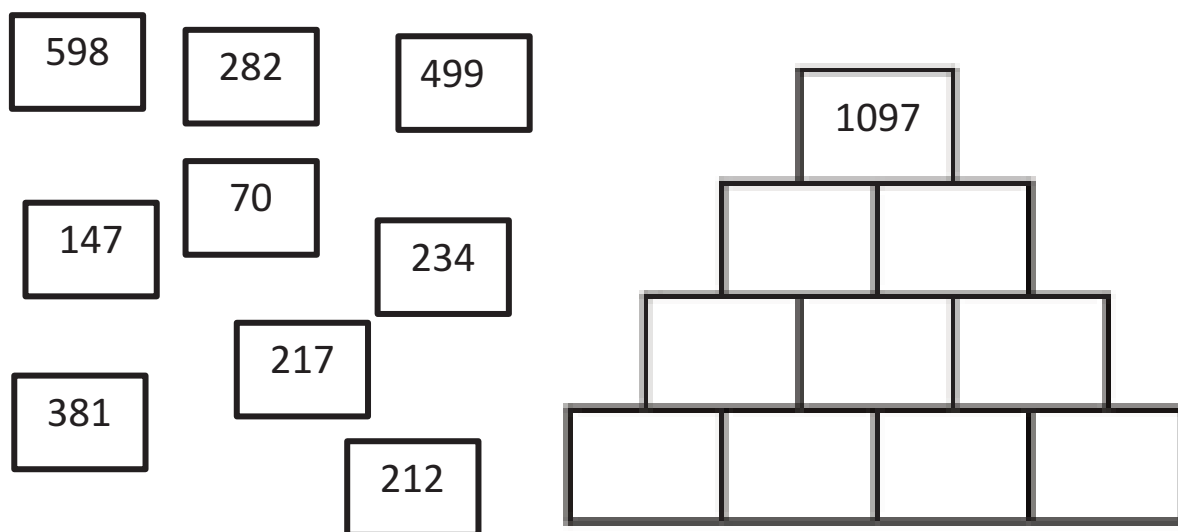
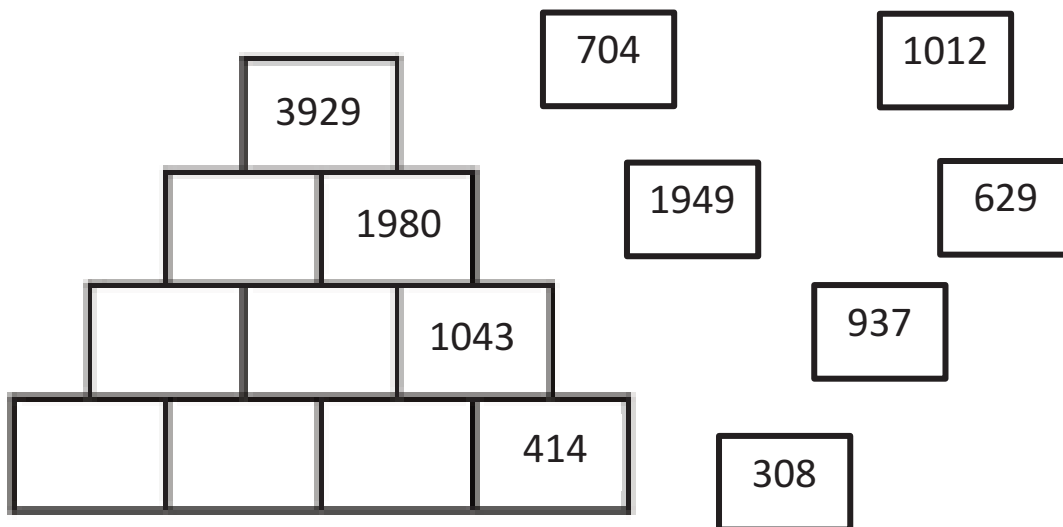
How did you find the answer for each box? When did it start to become harder? Did you need to use more than one strategy? Why?



This activity can be adapted/consolidated during the decimal unit of work.

## EXPLORE

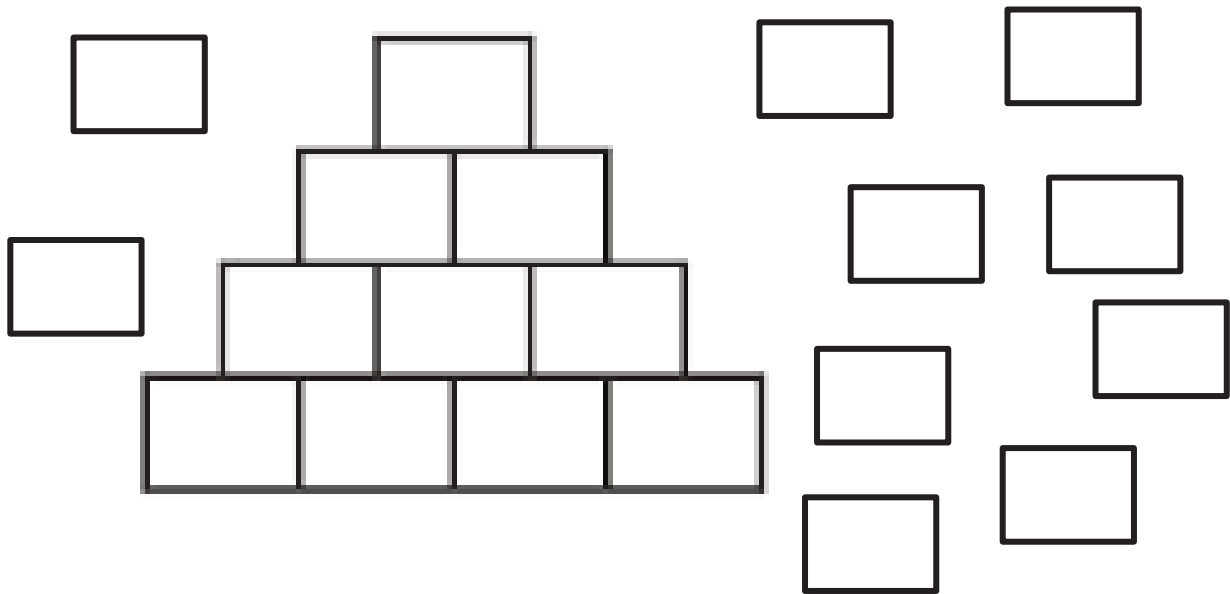
Show the children the pyramids below. Explain that it is now their job to build the number pyramid using the information given to them on the pyramid and in the building blocks.



Are the children using efficient subtraction methods?  
Are they checking their answers by doing the inverse calculations?

## TAKING IT FURTHER

Explain to the children that they are now going to have the opportunity to design a pyramid for their partner to solve. They are not going to fill in any numbers on the pyramid but give their partner all the building blocks to be able to put it together.



Are you going to start calculating at the top of the pyramid or the bottom? Which would be the most useful number to get in the right place first? Why?

## OUTCOME

The children should be using a range of mental and written addition and subtraction methods. They will be reasoning and deducing where numbers will fit into the pyramid. They will be using inverse operations to check their answers. They will be creating their own problems for their partners to solve.