

Consecutive Numbers



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INTRODUCTION

The following problems are based upon consecutive numbers.
Students are asked to use integer values greater than zero.

They will need to work with a partner for this first problem:

MATHEMATICAL CONTENT

- Properties of numbers
- Algebra

APPLICABILITY

KS1 – KS3

Choose any three consecutive numbers and add them together.

Students give their answers to each other and have to work out each other's chosen numbers.

This is repeated several times until student are able to work out how they solved each others puzzles.

What happens when 4 consecutive numbers are summed ?

The number 15 can be made by using different consecutive sums, i.e.

$$7 + 8$$

$$4 + 5 + 6$$

$$1 + 2 + 3 + 4 + 5$$

How can we be sure that there are no other solutions ?

Explore numbers and their consecutive sums.

Some numbers cannot be made with a consecutive sum.

See if you can identify these numbers.