

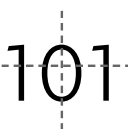


Activity sheet 9

Sam Lava

Symmetrical Numbers

The scientists have asked Sam to investigate symmetrical numbers.
Can you help him?

1)  is a symmetrical number

a) Can you find any other 3-digit symmetrical numbers?

b) Can you find any 2-digit symmetrical numbers?

c) Can you find any 4-digit symmetrical numbers?

d) Show all of the lines of symmetry

2) 1441 is a palindromic number. This means it reads the same backwards as forwards. You can swap the digits to make 4114

a) Find the difference between 4114 and 1441

b) What is the difference between 3663 and 6336?

c) What about 5885 and 8558? What you notice?

d) Look at other pairs of 4-digit palindromic numbers.
Do the pairs all have the same difference?

e) What do you notice about the digits in numbers that do have the same difference?

3) Investigate 6-digit palindromic numbers like 347743

a) How many palindromes can you make with the same digits?

b) What can you find out about the differences?
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