

Discussion Problems

Numbers to 1,000,000

National Curriculum Objectives:

Mathematics Year 6:

(6N2) Read, write, order and compare numbers up to 10 000 000

(6N3) Determine the value of each digit in numbers up to 10 000 000

(6N6) Solve number and practical problems that involve the above

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.

Numbers to 1,000,000

The 6-digit number below is incomplete.

Using the numbers on the keypad, write as many different numbers as possible without any repeated digits in the same number.

_ 6 _ , _ 0 _



Discuss and use a system to find the numbers.

DP

Numbers to 1,000,000

The 6-digit number below is incomplete.

Using the numbers on the keypad, write as many different numbers as possible without any repeated digits in the same number.

	6		,		0	
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Discuss and use a system to find the numbers.

Various answers, for example:

961,207

362,108

267,304

DP