Hampshire Services
HIAS SCHOOL IMPROVEMENT

Year 5 Problems Summer 1 Week 5

Objectives:

- Add and subtract mentally with increasingly large numbers
- Add and subtract whole numbers with more than 4 digits, including using formal written methods.
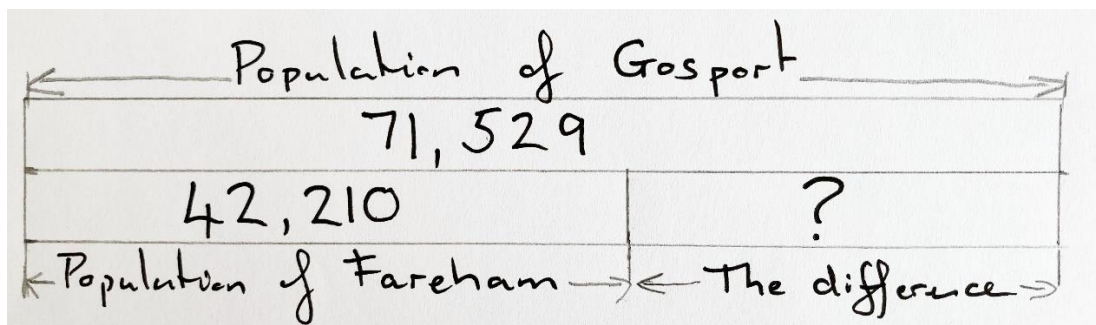

The table shows the number of people living some towns in Hampshire.

Town	Population
Aldershot	57,211
Alton	17,816
Brockenhurst	3,552
Fareham	42,210
Farnborough	65,034
Gosport	71,529

What is the difference between the number of people living in Fareham and Gosport?

Model answer

The table tells me that there are 71,529 people living in Gosport and 42,210 people living in Fareham. I need to compare these to numbers. Drawing a bar model could help me see the problem more clearly.

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Hampshire County Council
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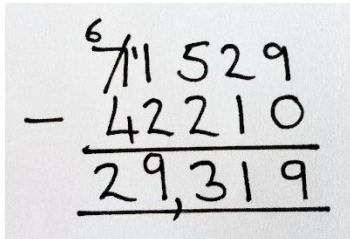*I shall estimate this calculation first using rounding.*

71,529 rounds to 71,500 to the nearest 100.

42,210 rounds to 42,200 to the nearest 100.

71,500 – 42,200 = 29,300

I now know my answer will be approximately 29,300.

To carry out the calculation 71,529 – 42,210 I need to decide whether to use a column method, a mental method, or some jottings. I think this calculation is not one that is easy using jottings or a mental method so I will use a column method.

$$\begin{array}{r} {}^{6}\cancel{7}1\,529 \\ -\ 42\,210 \\ \hline 29{,}319 \end{array}$$

My answer 29,319 is close to my estimate of 29,300.

The answer to the problem is the difference between the number of people living in Fareham and Gosport is 29,319 people.

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Now try these problems.

What is the difference between the number of people living in Aldershot and Farnborough?

Space for working

How many people live in Aldershot, Brockenhurst and Gosport altogether?

Space for working

Answers:

The difference between the number of people living in Aldershot and Farnborough is 7,823 people.

The number of people living in Aldershot, Brockenhurst and Gosport altogether is 132,292 people.