Estimation − Romeet and Kelley

Objectives

The relevant framework objectives are:

- use known facts and place value to add or subtract mentally, including any pair of two−digit numbers (key objective);
- estimate and check by approximating (round to nearest 10 or 100).

Activity description

The pupils estimated the answers to a set of calculations before working them out using mental calculation strategies and informal jottings.

Commentary

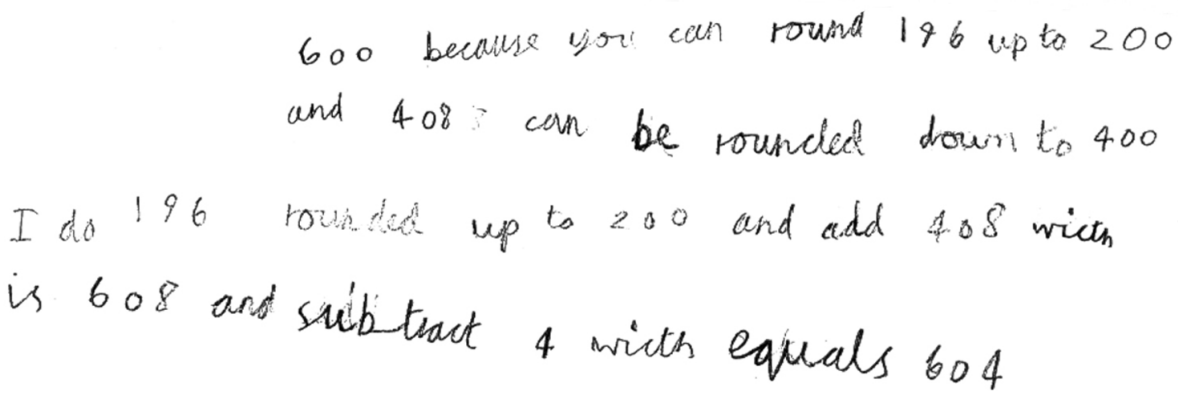
Romeet has estimated the size of the answer by rounding the numbers involved. He has worked out the answer by rounding 196 to the nearest 10 and adjusting.

Kelley has used her knowledge of the relevant size of 61 and 86 to predict that the answer to the calculation 761 − 86 will be below 700. She has then rounded numbers and adjusted her answer appropriately. She has also jotted down a number line to help subtract 80 from 760.

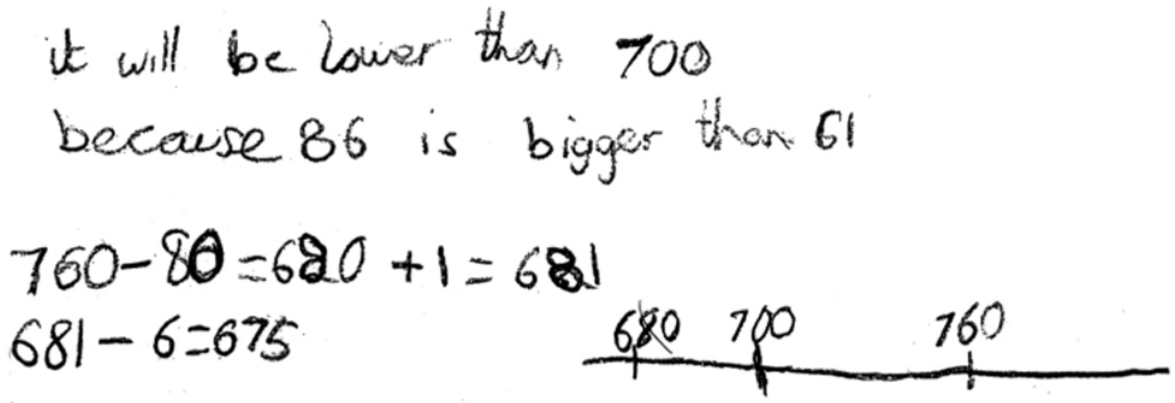
Romeet and Kelley are beginning to organise their work, check their results and explain their thinking. Both pupils have shown that they are able to add and subtract numbers with three−digits using informal written methods. They are also able to use their knowledge of place value to make approximations. This work therefore shows attainment at level 3 of Ma2.

Items of work

Romeet's estimation and explanation of the addition calculation 196 + 408



Kelley's estimation and explanation of the subtraction calculation 761 − 86



About this entry

Subject:	mathematics
Year:	4
Key stage:	2
NC programme of study:	Ma2p1e, Ma2p2c, Ma2p3e
Attainment target:	Ma2
Evidence for:	level 3

Framework for teaching mathematics − objectives:

- Use known number facts and place value to add or subtract mentally, including any pair of two−digit whole numbers.