

Maths: Addition and Subtraction using whole numbers with more than four digits

Mental

1. Number bonds to 1,000
 - using multiples of 10 and 100
 - number bonds within other numbers
2. Add/subtract a 4-digit and 1 digit number
 - without bridging
 - with bridging
3. Add/subtract a 4-digit number and a multiple of ten
 - without bridging
 - with bridging
4. Add/subtract a 4-digit number and a multiple of a hundred
 - without bridging
 - with bridging
5. Add/subtract a 4-digit number and a multiple of a thousand
 - without bridging
 - with bridging
6. The compensation and adjustment method
 - add/subtract too much then adjust
 - add/subtract too little then adjust
7. Near doubles
 - add/subtract near double and adjust
8. Estimate answers by rounding first

Written

1. **Add/subtract whole numbers with more than four digits:**
 - use the formal column method
 - line the digits appropriately
 - exchange or regroup more than one digit
 - add/subtract from multiples of 1,000 and 10,000
2. **Rounding is used to check calculations and determine the level of accuracy**
3. **Inverse operations**

- to calculate missing numbers
- to calculate missing digits

4. Strategies to solve multi-step problems

- identify key parts of the question and calculation required
- move between mental and written methods knowing which is the most efficient
- know the required order of calculations