

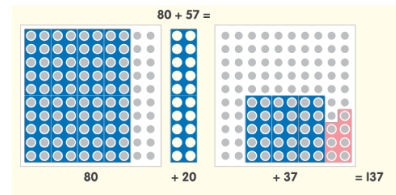
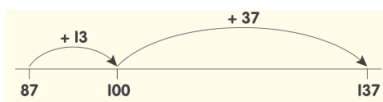
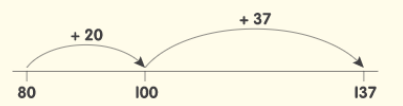
# Maths - Year 5

## Calculating 2: Strategies for bridging when adding and subtracting mentally

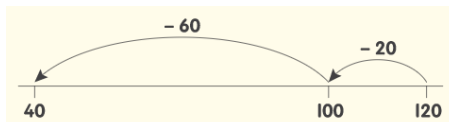
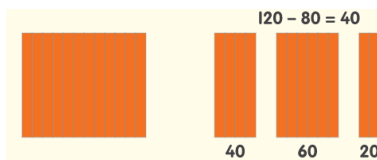
| Key Vocabulary    |  | Mathematical Skills  |
|-------------------|--|--|
| Bridging          | Partitioning the number to be added or subtracted to help with calculating.      | <ul style="list-style-type: none"> <li>- Make connections with bridging through multiples of 10 to bridge through multiples of 100 and 1000 when adding or subtracting.</li> <li>- Fluent recall of adding and subtracting facts to 10 and 100 and use this to partition numbers in different ways.</li> <li>- Use the inverse relationship between adding and subtracting to calculate efficiently.</li> <li>- Explain and illustrate how they use whole hours as a bridge to solve problems with time.</li> <li>- Illustrate, with apparatus, using whole numbers as a bridge when solving adding and subtracting problems involving fractions.</li> <li>- Explain and illustrate how they use whole numbers as a bridge when solving adding and subtracting problems involving decimals.</li> <li>- Explain and illustrate how they use bridging when solving adding and subtracting problems involving money.</li> </ul> |
| Partition         | Splitting a number in different ways.  |  |
| Denominations     | The amount a number or object is split into.                                     |  |
| Improper fraction | A fraction where the numerator is larger than the denominator e.g. $\frac{9}{6}$ |  |
| Mixed number      | A number written as a whole number and a fraction e.g. $2\frac{3}{4}$            |  |

### Mathematical Methods

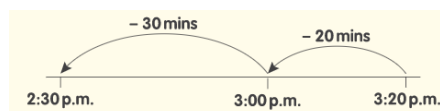
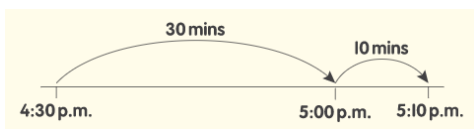
- Bridging through hundreds and thousands when adding e.g.



- Bridging through hundreds and thousands when subtracting e.g.

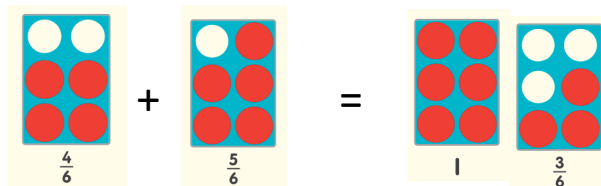


- Using a bridging strategy to solve problems involving time.

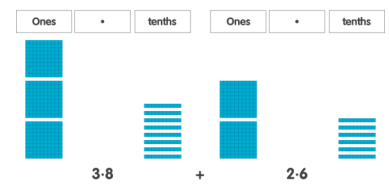
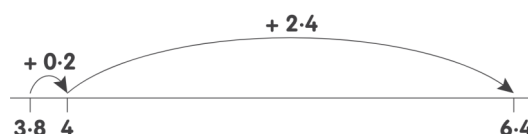


- Using a bridging strategy to solve problems involving fractions e.g.

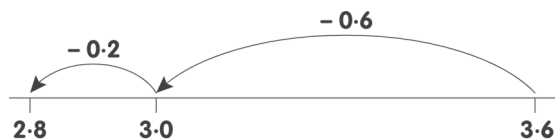
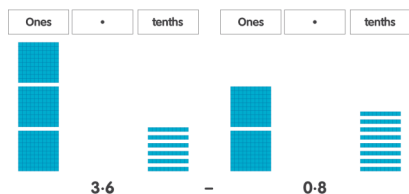
$$\frac{4}{6} + \frac{5}{6} = 1\frac{3}{6}$$



- Using a bridging strategy to solve problems involving adding decimal numbers.



- Using a bridging strategy to solve problems involving subtracting decimals.



### Can you..?

- Find one way to complete this calculation:  $195 + 75 = 195 + \square + \square = 200 + \square$

- Molly's favourite TV programme lasts 45 minutes. It began at 4:25pm. When did it end?

- Solve  $3\frac{3}{8} + \frac{5}{8}$

- Amy has grown 0.7cm during the summer term and she is now 136.4cm. How tall was she at the beginning of the term?