Hotspur Primary School

Calculation Policy-Year 6

Addition and Subtraction

Children should continue to use methods taught in Year 5, they should be able to add large numbers and numbers with decimals including those with 2 and 3 decimal places.

They should have the opportunity to apply their knowledge to a variety of problems and make generalisations including always, sometimes never statements.
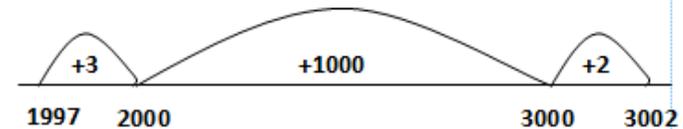
Children will add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.

Children need to understand which operation to apply first using BODMAS or PEDMAS e.g. 20 – 5 x 3 = 5;

(20 – 5) x 3 = 45.

Children should continue to use methods taught in Year 5, they should be able to subtract large numbers and

numbers with decimals. Using number lines and the compact method for subtraction.

3002 – 1997 = 1005

$$6 \ 2^5 \ \cancel{8}^1 \ \cancel{4}^7 \ \cancel{3}^1 \ \cancel{5}^2 \ ^1$$
$$- \quad 4 \ 3 \ 6 \ 9 \ 2 \ 7$$
$$\overline{1 \ 9 \ 1{,}5 \ 0 \ 8}$$

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Multiplication and Division

Children consolidate methods of written multiplication and apply to 2d by 4d.

```
    1 3 4 2

X         1 8

  1 0 7 3 6

  1 3 4 2 0

  2 4 1 5 6
```

Children will also multiply one digit numbers with up to 2 decimal places by a whole number.

```
    2 . 4 3

  X       7
      3   2

  1 7 . 0 1
```

Children should also have the opportunity to relate multiplication to converting units of measure.

Children will multiply simple pairs of proper fractions, writing the answer in its simplest form.

Children will continue to use long and short division with larger numbers.

```
            0 1 8 9
   13 ) 2 4 5 7
          2 4
          1 3
          1 1 5
          1 0 4
            1 1 7
```

They will begin to write remainders to two decimal places

```
          1 8 8 . 2 5
          ¹  ⁷ ⁶ ² ⁴
   8 ) 1 5 0 6 . 0 0    or 188 2/8 or 188 1/4
```

Children will also divide proper fractions by whole numbers.

Children will explore the divisibility rules, spot patterns and make generalisations.