

## A Parent's Guide to Maths for Year 4

### Key mental maths skills

#### Addition strategies

- Add any two 2-digit numbers by partitioning or counting on, using number facts and bridging
- Know by heart/quickly derive number bonds to 100 and of £1
- Add to the next hundred, pound or whole number (e.g.  $234 + 66 = 300$ ,  $3.4 + 0.6 = 4$ )
- Perform place value additions without a struggle (e.g.  $4000 + 300 + 50 + 8 = 4358$ )
- Add multiples and near multiples of 10, 100 and 1000 (e.g.  $350 + 200$ ,  $305 - 190$ ,  $178 + 210$ )
- Add £1, 10p, 1p to amounts of money

#### Subtraction strategies

- Subtract any two 2-digit numbers by partitioning and counting back, using number facts and bridging
- Know by heart/quickly derive number bonds to 100 and of £1
- Subtract by counting up (e.g.  $503 - 368$  is done by adding:  $368 + 2 + 30 + 100 + 3$  so we added 135)
- Perform place value subtractions without a struggle (e.g.  $4736 - 706 = 4030$ , etc.)
- Subtract multiples and near multiples of 10, 100 and 1000 (e.g.  $350 - 210$ ,  $305 - 190$ ,  $178 + 210$ )  
Find change from £10, £20 and £50
- Subtract £1, 10p, 1p from amounts of money

#### Multiplication strategies

- Know by heart all the multiplication facts up to  $12 \times 12$
- Recognise factors up to 12 of two-digit numbers
- Multiply whole numbers and one-place decimals by 10 and 100
- Multiply multiples of 10, 100, 1000 by single digit numbers (e.g.  $300 \times 6$  or  $4000 \times 8$ )
- Use understanding of place value and number facts in mental multiplication (e.g.  $36 \times 5$  is half of  $36 \times 10 = 360$  so half of this is 180)
- Partition 2-digit numbers to multiply by a single-digit number mentally (e.g.  $4 \times 24$  as  $4 \times 20$  and  $4 \times 4$ )
- Multiply near multiples using rounding (e.g.  $33 \times 19$  as  $33 \times 20 - 33$ )
- Find doubles up to 100 and beyond using partitioning and recombining
- Begin to double amounts of money (e.g.  $\pounds 35.60$  doubled =  $\pounds 71.20$ .)

#### Division strategies

- Know by heart all the division facts up to  $144 \div 12$
- Recognise factors up to 12 of two-digit numbers
- Divide whole numbers by 10 and 100 to give whole number answers or answers with one decimal place
- Divide multiples of 100 by 1-digit numbers using division facts (e.g.  $3200 \div 8 = 400$ )
- Use place value and number facts in mental division (e.g.  $240 \div 20$  is halve  $240 \div 10$ )
- Divide larger numbers mentally by subtracting the 10th or 20th multiple as appropriate (e.g.  $156 \div 6$  is **20**  $\times 6 = 120$  and **6**  $\times 6 = 36$ , so  $20 + 6 = 26$ )
- Find halves of even numbers to 200 and beyond using partitioning and recombining
- Begin to halve amounts of money (e.g. half of  $\pounds 52.40 = \pounds 26.20$ )