**Pinders Primary School – Mathematics Mental Strategies – Year 6**

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| **Rapid Recall Skills** | **Key Knowledge and Vocabulary** |
| * Multiplication of multiples of 10 and 100 based on known facts (e.g. 40 x 40 = 1,600) | **Adjusting multiples with decimals.**   * Know how to adjust numbers with decimals or mixed fractions to solve calculations.   e.g. 2 + 1 = 2 + 2 - e.g. 5.7 + 3.9 = 5.7 + 4.0 – 0.1    **Near Doubles**   * Know how to convert decimals to whole numbers to work out near doubles.   e.g. 2.5 + 2.6 is double 2.5 add 0.1 or double 2.6 subtract 0.1.    **Doubling and Halving**   * Know how to find the doubles and halves of any number up to 10, 000 by partitioning.   e.g. half of 83,642 by halving 80,000, 3,000, 600, 40 and 2     * Know how to multiply by 50 by multiplying by 100 and halving.   e.g. 8 x 50 = 8 x 100 ÷ 2     * Know how to double and half decimal numbers with up to one decimal place by partitioning   e.g. half of 8.4 by halving 8 and halving 0.4 |