**Mental Maths/Number Talks Strategies**

**Multiplication & Division**

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| **Friendly Numbers**  **9 x 15**  10 x 15 = 150  150 – 15 = 135  **Don’t forget to ‘undo’ your change!** | **Repeated Addition**  **6 x 15**  15+15+15+15+15+15  15 + 15 = 30  30 + 15 = 45  45 + 15 = 60  60 + 15 = 75  75 + 15 = 90 | **Partial Products**  **6 x 125**  6 x (100 + 20 + 5)  (6x100) + (6x20) + (6x5)    600 + 120 + 30 = 750 | **Doubling and Halving**  **24 x 8**  x2 ÷2  **48 x 4**  x2 ÷2  **96 x 2**  x2 ÷2  **192** |
| **Breaking Factors into Smaller Factors**  **12 x 25**    2 x 6  **2** x 25 = 50  50 x **6** = 300 | **Grid Method**  **35 x 7** | **Partial Quotients** | **Multiplying Up**  **72** ÷ **8**  8 x **5** = 40  8 x **4** = 32  (**5** + **4**) = (40 + 32)  8 x 9 = 72 |
| **Repeated Subtraction**  **24** ÷ **6** 24 – 6 – 6 – 6 – 6 **6 x 4 = 24 so 24** ÷ **6 = 4** | | | |