**BIDMAS homework –** Stick the worksheet into your book neatly and answer these questions in your book.

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| **Literacy**  BIDMAS  **B** – Brackets  **I** – Indices  **DM** – Division and Multiplication  **AS** – Addition and Subtraction  Order of operation  Squared and square root  Cubed and cube root | **Example**  Calculate 3 + (9 – 4)2   * Brackets first…..(9 – 4) = 5 and the sum becomes 3 + (5)2 * Indices next…….(5)2 = 5 x 5 = 25 and the sum becomes 3 + 25 * So the answer is **28** | **Memory**  \*\*Remember that you do **division and multiplication** in the same order as they appear in the calculation.\*\*  \*\*Remember that you do **addition and subtraction** in the same order that they appear in the calculation.\*\*  **62** is “6 squared” which means 6 x 6  **63** is “6 cubed” which means 6 x 6 x 6  √64 is “square root of 64” which is 8 (as 8 x 8 = 64)  3√216 is “cube root of 216” which is 6 (as 6 x 6 x 6 = 216) |
| **Skills Practice**  Work out the value of these expressions   1. 5 x 4 + 3 b) (6 – 3) x 4 c) 10 – 8 + 2 d) 14 ÷ (4 + 3) e) 10 ÷ (10 x 10) 2. Calculate the following values 3. 32 b) 22 c) 23 d) 122 e) 93 4. Calculate the following values (try to do these without a calculator - think about your times tables and square numbers) 5. √64 b) √100 c) √81 d) √1 e) √36 6. Add brackets to make the following sums correct 7. 11 – 1 x 5 = 50 b) 8 ÷ 4 + 4 - 4 + 1 = 1 c) 12 – 4 – 1 = 9 | | **Challenge** **and** **Stretch**   1. Calculate the following – you must show your working out 2. 5 + 32 3. √(72 + 9) 4. 10 - 23 5. 52 + √121   How much effort did you put into your homework? Give yourself a mark out of 10.  / 10   1. √(32 + 42) 2. (53 – 3) x (42 – 13) 3. Write and solve your own   calculation that uses every  operator once +, -, x, ÷, (, ), 2 |