**Factorising Quadratics Homework**

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| **Literacy**  Factor Quadratic Sum Product Coefficient | **Research**  Write a mathematical  definition for every  keyword in the  literacy section. Make  sure they are  accurate and precise! | **Memory**  [http://t3.gstatic.com/images?q=tbn:ANd9GcTUoMRXrh7xt70_kDsRw8YHjlcbmnAS1lLLxfn01CB_ZBk-fdn1](http://www.google.co.uk/url?sa=i&rct=j&q=expanding+double+brackets&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://maths.nayland.school.nz/Year_Junior/Algebra/5.4_Factorising.htm&ei=mkxbVP7zKoyraa23gvgH&bvm=bv.78677474,d.d2s&psig=AFQjCNFvHNqmjl5peoRFUgxEYwSMTMKqtw&ust=1415355843687793) |
| **Skills**  **Factorise the following expressions.**  **1) x2 + 6x + 8**  **2) x2 + 2x – 15**  **3) x2 – 6x + 8**  **4) x2 – 8x + 15**  **5) x2 – x – 6**  **6) x2 + 3x - 108**  **Don’t forget presentation standards. The working out IS the maths!**  **All questions are to be checked by expanding back out when you’ve got the answer!** | | **Stretch**  **7)**  **Factorise the following:**  **x2 – 9**  ***(Hint: This is the  same as x2 + 0x – 9)***  **8)**  **2x2 – 6x – 20**  ***(Hint: Take out a common factor FIRST)*** |