



5. Working out the value of coefficients using Pascal's triangle can be onerous for higher values. Write the formula used to calculate the coefficient (from formula booklet!):

6. Using the formula in Q5, calculate each of the following (do NOT use a calculator)

a)  $\binom{9}{3} = {}^9C_3$

b)  $\binom{8}{6} = {}^8C_6$

7. By using the patterns observed, and applying the coefficients, fully expand each of the following. Circle the **constant term**.

a)  $(x + 3)^5$

b)  $(2x - 1)^4$