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| **Crack the Code** | **Binomial Expansion** |

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| **A** | Find the coefficients of all terms in the expansion of $(x+1)^{3}$ | **B** | Find the coefficients of all terms in the expansion of $(x+2)^{4}$ |
| **C** | Find the coefficients of all terms in the expansion of $(x-1)^{5}$ | **D** | Find the coefficients of all terms in the expansion of $(2x+1)^{3}$ |
| **E** | Find the coefficients of all terms in the expansion of $(3+x)^{3}$ | **F** | Find the coefficients of all terms in the expansion of $(4-x)^{4}$ |
| **G** | Find the coefficient of the $x^{5} $term in the expansion of $(x+5)^{6}$ | **H** | Find the coefficient of the $x $term in the expansion of $(2+x)^{7}$ |
| **I** | Find the coefficient of the $x^{3} $term in the expansion of $(x-7)^{4}$ | **J** | Find the coefficient of the $x^{3} $term in the expansion of $(1-2x)^{5}$ |
| **K** | The coefficient of the $x$ term in the expansion of $(x+a)^{4}$ is $500$. Find $a$. |  **L** | The coefficient of the $x^{2}$ term in the expansion of $(2x-b)^{5}$ is $-13720$. Find $b$. |
| To get the three-digit code, add together all your answers. |