

## 25-What Forms Where? Solutions

The table below gives the solutions. Note that the numbers do not all come out to be integers. Composition #4 is degenerate; after crossing the first reaction line, only two minerals remain instead of three. The solutions are depicted in graphical form below the table. Large editable copies of the figures are in the pdf file: *25What forms solutions graphics.pdf*.

A	B	C	D
1. 4Gr + 2Ky + 3Qz	3Gr + 2Qz + 3An	3Gr + 2Qz + 3An	1Gr + 5An + 4Wo
2. 3Gr + 2Ky + 1Co	3Gr + 2Ky + 1Co	$2\frac{1}{3}\text{Gr} + 2\text{An} + 1\frac{2}{3}\text{Co}$	$2\frac{1}{3}\text{Gr} + 2\text{An} + 1\frac{2}{3}\text{Co}$
3. 2Gr + 2Ky + 3Qz	Gr + 2Qz + 3An	Gr + 2Qz + 3An	Qz + 4An + 2Wo
4. 1Gr + 4Ky + 1Qz	2Ky + 3An	2Ky + 3An	2Ky + 3An
5. 1Gr + 6Ky + 2Co	1Gr + 6Ky + 2Co	3Ky + 3An + 3Co	3Ky + 3An + 3Co
6. $\frac{1}{2}\text{Gr} + 2\text{Ky} + 3\frac{1}{2}\text{Qz}$	Ky + 3Qz + $1\frac{1}{2}\text{An}$	Ky + 3Qz + $1\frac{1}{2}\text{An}$	Ky + 3Qz + $1\frac{1}{2}\text{An}$
7. $1\frac{1}{3}\text{Gr} + \frac{2}{3}\text{Ky} + 4\frac{1}{3}\text{Qz}$	1Gr + 4 Qz + 1An	1Gr + 4 Qz + 1An	3Qz + 2An + 2Wo

