

1. Calculate structural formulae for the two chemical analyses of minerals below:

Oxide	Mineral A	Mineral B
	wt. %	wt. %
SiO <sub>2</sub>	47.58	51.43
TiO <sub>2</sub>	0.03	0.58
Al <sub>2</sub> O <sub>3</sub>	33.40	3.42
FeO	0.28	5.55
MgO	0.02	16.18
CaO	16.89	21.72
Na <sub>2</sub> O	2.10	0.46
K <sub>2</sub> O	0.03	0.00
	<hr/> 100.33	<hr/> 99.34
Oxygen basis	O=8	O=6

2. Write the formula in standard format.

*Page 22 of your textbook shows how to calculate mineral formulae.*