The bulk (G<sub>sb</sub>) and apparent (G<sub>sa</sub>) specific gravities of the total aggregate are calculated as follows:

\[
G_{sb} = \frac{A_p}{G_1} + \frac{P_1}{G_2} + \ldots + \frac{P_n}{G_n}
\]

\[
G_{sa} = \frac{100}{\left[\frac{P_1}{G_1} + \frac{P_2}{G_2} + \ldots + \frac{P_n}{G_n}\right]}
\]

\[
VMA = 100 - \frac{G_{mb} \times P_s}{G_{sb}}
\]

Note: When using mineral filler use the apparent specific gravity

Note: Report the following values to the nearest thousandth (0.001):
- G<sub>sb</sub>, G<sub>sa</sub>, G<sub>mb</sub>, bulk and apparent gravities of the aggregates
- Report VMA to the nearest tenth (0.1)