

Name : _____

Ratio of Surface Areas and Volumes

Sheet 1

- 1) Determine the ratio of surface areas and the ratio of volumes, if the scale factor of cube P to cube Q is $3.2 : 2.7$.

- 2) The scale factor of two similar triangular prisms is $8 : 9$. Determine the ratio of their surface areas and the ratio of their volumes.

- 3) If two rectangular prisms are similar and the scale factor of their surface areas is $16 : 9$, find the ratio of their volumes.

- 4) What are the ratio of surface areas and the ratio of volumes of two similar hexagonal prisms if the scale factor of their surface areas is $16 : 9$?

- 5) If the ratio of corresponding surface areas of two similar rectangular prisms is $16 : 9$, what could be the ratio of their volumes?

- 6) Claire requires conical flasks of two different sizes for a titration experiment. If the scale factor of the flasks is $3 : 6.5$, find the ratio of their surface areas and the ratio of their volumes.

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