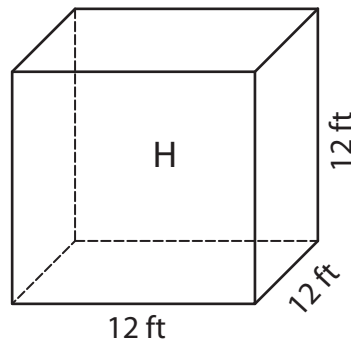
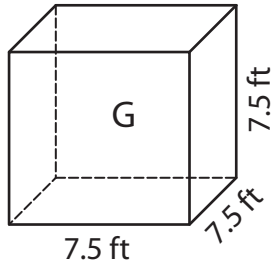


Name : _____

Ratio of Surface Areas and Volumes

Sheet 2



1) What is the scale factor?

2) Determine the ratio of surface areas.

3) What is the ratio of volumes?

4) Find the volume of cube G.

5) What is the ratio of surface areas?

6) Express the relationship between scale factor and the ratio of surface areas.

7) What is the relation between scale factor and the ratio of volumes?

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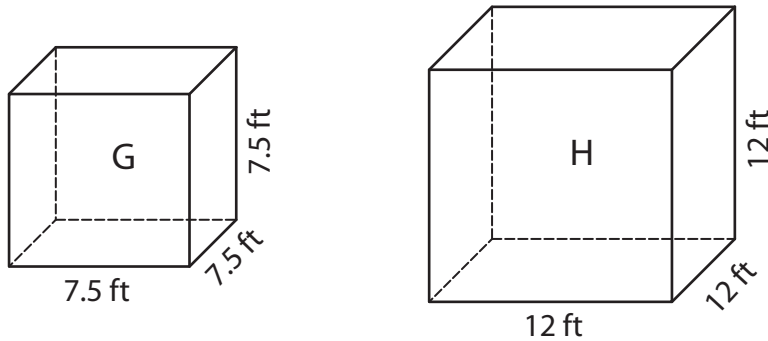
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Answer key

Ratio of Surface Areas and Volumes

Sheet 2



1) What is the scale factor?

2) Determine the ratio of surface areas.

3) What is the ratio of volumes?

4) Find the volume of cube G.

5) What is the ratio of surface areas?

6) Express the relationship between scale factor and the ratio of surface areas.

Ratio of surface areas = $6.25 : 16 = (2.5)^2 : 4^2 = (\text{scale factor})^2$

7) What is the relation between scale factor and the ratio of volumes?

Ratio of volumes = $15.625 : 64 = (2.5)^3 : 4^3 = (\text{scale factor})^3$

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15.625 : 64