

Name : _____

Ratio of Surface Areas and Volumes

Sheet 2

- 1) Two pentagonal prisms G and H are similar with a scale factor of 9 : 1.1, determine the ratio of their surface areas and the ratio of their volumes.

- 2) Find the ratio of surface areas and the ratio of volumes, if the scale factor of two similar hexagonal pyramids is 5.5 : 8.

- 3) What are the ratio of surface areas and the ratio of volumes, if the scale factor of two regular figures W to X is 3 :

factor of two regular

- 4) The scale factor of two similar figures is 0.2 : 4.3. Find the ratio of their surface areas and the ratio of their volumes.

is 0.2 : 4.3. Find the

- 5) If the scale factor of two similar figures is 1 : 3, determine the ratio of their surface areas and the ratio of their volumes.

be the ratio of their

- 6) Yvonne buys a couple of cylindrical glass canisters to store pasta and coffee beans. If the scale factor of the canisters is 1 : 3, determine the ratio of their surface areas and their volumes.

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Ratio of Surface Areas and Volumes

- 1) G and H are similar pentagonal prisms with a scale factor of 9 : 1.1. Determine the ratio of their surface areas and the ratio of their volumes.

Ratio of surface areas is 81 : 1.21 ; Ratio of volumes is 729 : 1.331

- 2) Find the ratio of surface areas and the ratio of volumes, if the scale factor of two similar hexagonal pyramids is 5.5 : 8.

Ratio of surface areas is 30.25 : 64

: 512

- 3) What are the ratio of surface areas and the ratio of volumes, if the scale factor of two regular figures is 3 : 2?

factor of two regular

Ratio of surface areas is 9 : 4

- 4) U and V are similar rectangular prisms with a scale factor of 4 : 3. Find the ratio of their surface areas and the ratio of their volumes.

4.3. Find the ratio of their

Ratio of surface areas is 16 : 9

79.507

- 5) If the scale factor of two similar rectangular prisms is 5 : 3, determine the ratio of their surface areas and the ratio of their volumes.

be the ratio of their

Ratio of surface areas is 53.29 : 36 ; Ratio of volumes is 389.017 : 216

- 6) Yvonne buys a couple of cylindrical glass canisters to store pasta and coffee beans. If the scale factor of the canisters is 1 : 3, determine the ratio of their surface areas and their volumes.

Ratio of surface areas is 1 : 9 ; Ratio of volumes is 1 : 27