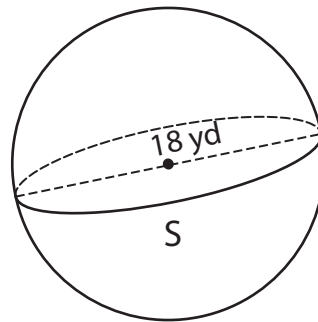
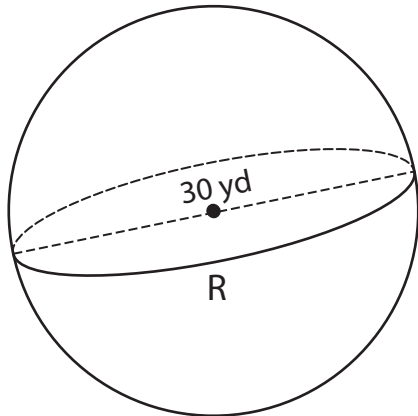


## Ratio of Surface Areas and Volumes



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 sphere R.

\_\_\_\_\_

5) What is the ratio of volumes?

\_\_\_\_\_

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?

\_\_\_\_\_

**PREVIEW**

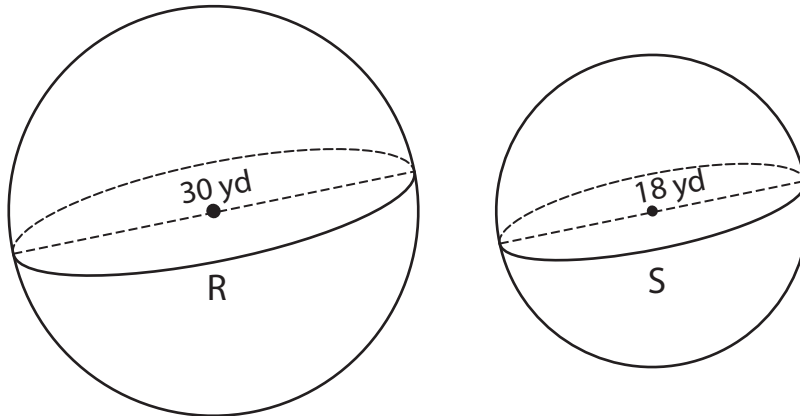
Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

**Ratio of Surface Areas and Volumes**



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 sphere R.

\_\_\_\_\_

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 =  $25 : 9 = 5^2 : 3^2 = (\text{scale factor})^2$**

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

**Ratio of volumes =  $125 : 27 = 5^3 : 3^3 = (\text{scale factor})^3$**

# PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

**125 : 27**