

Why Are Mathematicians Like Airlines?

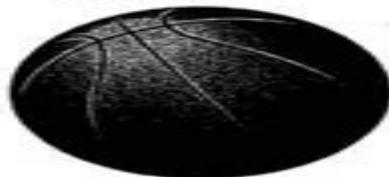
Choose the correct answer for each exercise and circle the letter next to it (most answers are rounded). Write the upper case letter in the box containing the lower case letter. Use 3.14 for π .

Find the volume of each ball. (AND TOTAL SURFACE AREA)

1. $r = 1.5$ in.



2. $r = 12$ cm



3. $d = 2.28$ in.



4. $d = 21$ cm



5. $d = 1.68$ in.



6. $r = 4.3$ in.

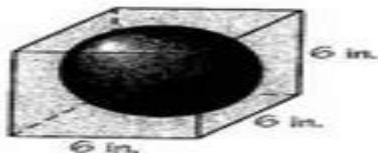


re.

7. A spherical water storage tank has a radius of 10 ft. A cubic foot of water is about 7.5 gallons. How many gallons of water will the tank hold?

9. A bowling ball has a diameter of 8.4 in. It is made of plastic that weighs 0.05 lb/in.³. Find the weight of the bowling ball.

10. A sphere fits snugly inside a 6-in. cube as shown. What is the volume of the region inside the cube but outside the sphere?



8. How many milliliters of soup will this hemispherical bowl hold? (1 cm³ holds 1 mL.)



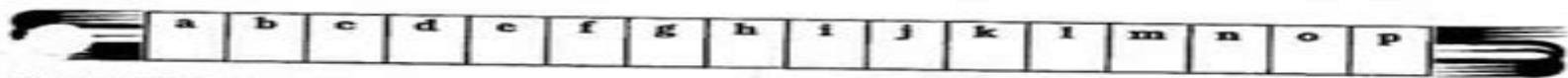
11. Rimshot was comparing two spheres, one with a 30-cm radius and the other with a 60-cm radius.
- Find the volume of the smaller sphere.
 - Find the volume of the larger sphere.
 - How many times greater is the volume of the larger sphere?

VOLUME answers

k • A	5274.8 cm ³
m • N	28,900 gal
p • S	332.9 in. ³
o • T	113,040 cm ³
n • O	7234.6 cm ³
g • V	14.8 lb
d • Y	103.0 in. ³
i • O	678,240 cm ³
f • U	4846.6 cm ³
g • S	904,320 cm ³
d • R	694 mL
h • E	31,400 gal

b • R	298.5 in. ³
c • E	14.1 in. ³
l • S	6
k • I	2.48 in. ³
j • F	105.2 in. ³
m • L	15.5 lb
a • T	6.2 in. ³
j • P	8
p • D	4.75 in. ³
b • H	718 mL
a • C	13.5 in. ³

TSA: 8.86, 113.04, 232.23, 1384.74, 11304
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Huangqi Zhang



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