Three dimensional geometry/Measurement

Name_____ Class_____ Date_____

1 If the **surface area** of a cylinder is **375.6225 cm** and the **diameter** is **5.5 cm**, what is the **height** of the cylinder? $SA = 2\pi r^2 + 2\pi rh$

A 5 cm
B 10 cm
C 19 cm
D 21 cm

2 What is the **surface area** of a regular square pyramid if the **base** is **9 in. x 9 in.** and the **height** of each side is **12 in.**?
$SA = s^2 + 2s\ell$, where s is the base side and ℓ is the slant height

A 297 in.
B 252 in.
C 234 in.
D 225 in.

3 What is the **surface area** for the regular square pyramid shown?
$SA = s^2 + 2s\ell$, where s is the base side

4 If the surface area of a regular square pyramid shown is **606.25 cm**, what is the **height** of the sides?

5

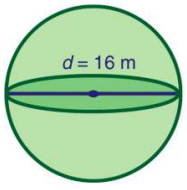
7 ... **14 in.**?
$SA = \pi r(r + s)$

A 176 in.
B 351.68 in.
C 552.64 in.
D 896 in.

$SA = 4\pi r^2$

A 153.86 in.
B 175.64 in.
C 615.44 in.
D 2,461.76 in.

9 What is the **volume** of the sphere shown to the **nearest tenth**?
$V = \frac{4}{3}\pi r^3$



A 1,205.8 m³
B 2,143.6 m³
C 9,646.1 m³
D 17,148.6 m³

10 If a spherical water balloon has a volume of **696.6 in.³**, what is the **diameter** of the water balloon?
$V = \frac{4}{3}\pi r^3$

A 25.8 in.
B 12.9 in.
C 11 in.
D 5.5 in.

Three dimensional geometry/Measurement

Math H

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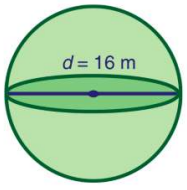

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