



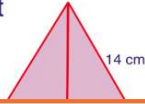
Name _____ Class _____ Date _____

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

3 What is the **surface area** for the regular square pyramid shown?
 $SA = s^2 + 2sl$, where **s** is the base side and **l** is the slant height

- A 602 cm
- B 609 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.**?

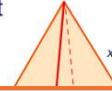
$SA = s^2 + 2sl$, where **s** is the base side and **l** is the slant height

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

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

$SA = s^2 + 2sl$, where **s** is the base side and **l** is the slant height

- A 18.0 cm
- B 23.25 cm



PREVIEW

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7
V
a
1
S

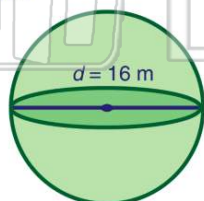
A 176 in.
B 351.68 in.
C 552.64 in.
D 896 in.

- 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.



ANSWER KEY

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

(C)

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

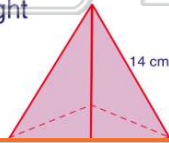
- A 297 in.
- B 252 in.
- C 234 in.
- D 225 in.

(a)

What is the **surface area** for the regular square pyramid shown?

$SA = s^2 + 2s\ell$, where s is the base side and ℓ is the slant height

- A 602 cm
- B 609 cm
- C 784 cm
- D

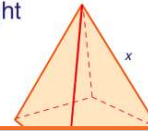


(d)

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

$SA = s^2 + 2s\ell$, where s is the base side and ℓ is the slant height

- A 18.0 cm
- B 23.25 cm
- C 23.75 cm
- D



(a)



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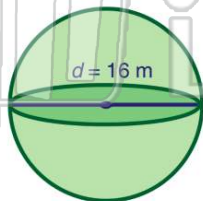
- A 176 in.
- B 351.68 in.
- C 552.64 in.
- D 896 in.

- B 175.64 in.
- C 615.44 in.
- D 2,461.76 in.

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



(b)

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.

(c)