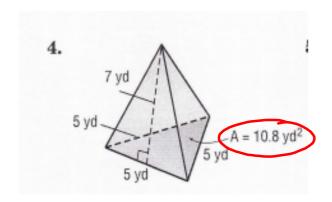
# Homework???

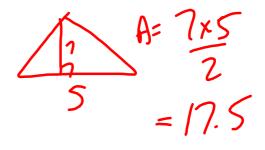
Worksheet - Surface Area of Pyramids and Cones.pdf

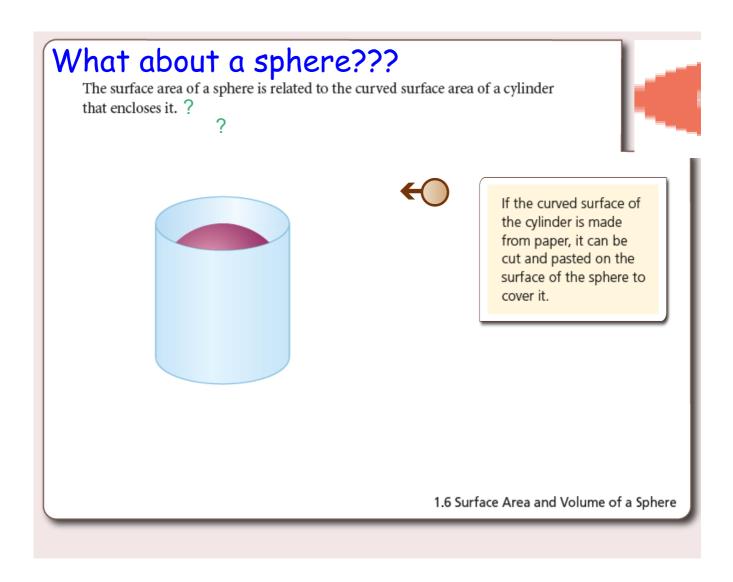


### Solutions...

- 1) 113.1 in<sup>2</sup>2) 40 m<sup>2</sup>3) 188.5 mm<sup>2</sup> 4) 63.3 yd<sup>2</sup> 5) 84 ft<sup>2</sup>6) 263.9 cm<sup>2</sup> 7) 208 m<sup>2</sup>8) 301.6 in<sup>2</sup> 9) 123.7 ft<sup>2</sup> 10) 263.2 mm<sup>2</sup> 11) 95.7 cm<sup>2</sup> 12) 210 yd<sup>2</sup> 13) 74.4 cm<sup>2</sup> 14) 152 yd<sup>2</sup>15) 857.7 in<sup>2</sup>







The curved surface area SA of a cylinder with base radius r and height h is:  $SA_C = 2$ ?

So, this is also the formula for the surface area of a sphere with radius r.

#### Surface Area of a Sphere

The surface area, SA, of a sphere with radius r is:  $SA = 4\pi r^2$ 



1.6 Surface Area and Volume of a Sphere

#### Example 1

#### **Determining the Surface Area of a Sphere**

The diameter of a baseball is approximately 3 in.

Determine the surface area of a baseball to the nearest square inch.





#### SOLUTION

(Erase to reveal)



1.6 Surface Area and Volume of a Sphere

#### **Example 2** Determining the Diameter of a Sphere

The surface area of a lacrosse ball is approximately 20 square inches.

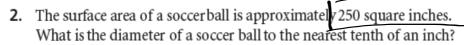
What is the diameter of the lacrosse ball to the nearest tenth of an inch?

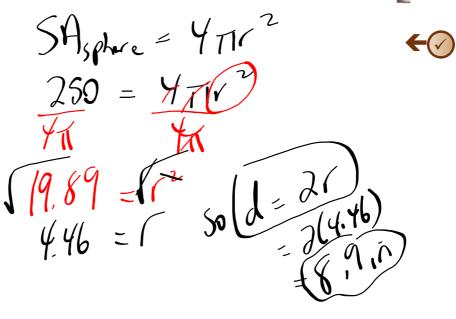
**SOLUTION** 

(Erase to reveal)

50 d = 2 (1, 26) 1.6 Surface Area and Volume of a Sphere

SAMPEB -> Pearrange CHECK YOUR UNDERSTANDING







1.6 Surface Area and Volume of a Sphere

## HOMEWORK...

Worksheet - Surface Area of 3D Objects.doc

Worksheet - Surface Area of Pyramids and Cones.pdf

Worksheet - Surface Area of 3D Objects.doc