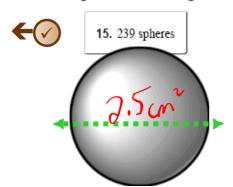
WARM-UP...



The centre of a doughnut is removed and formed to make a sphere of dough with diameter 2.5 cm. A batch of these spheres is to be covered in a sugar glaze. There is enough glaze to cover an area of 4710 cm². How many spheres can be glazed?



= 239

SASpare = 4TT(2 = 4TT(1,25)2 = 19.6 cm

1.6 Surface Area and Volume of a Sphere

Determining the Surface Area of a Composite Object



To calculate the surface area of a composite object, the first step is to determine the faces that comprise the surface area. Then calculate the sum of the areas of these faces.

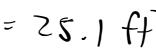
EXAMPLE #1: Determine the surface area of this composite object to the nearest square foot.



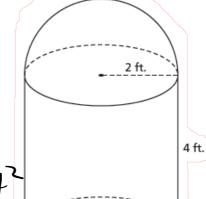
SOLUTION

(Erase to reveal)

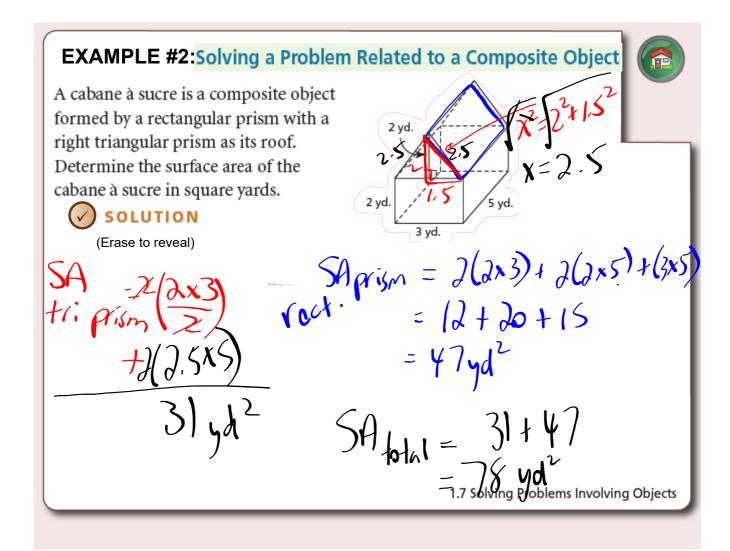
The surface area of the composite o' approximately 88 square feet.

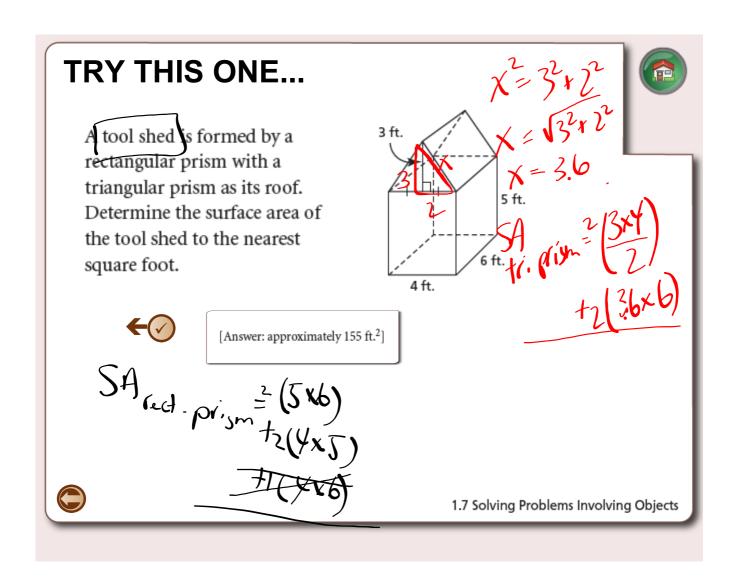


SA cylinder = \$\frac{1}{3\pi\chi} + 2\pi\chi



1.7 Solving Problems Involving Objects





HOMEWORK...

Worksheet - Finding Surface Area of a Composite Object.docx

Worksheet - Finding Surface Area of a Composite Object.docx