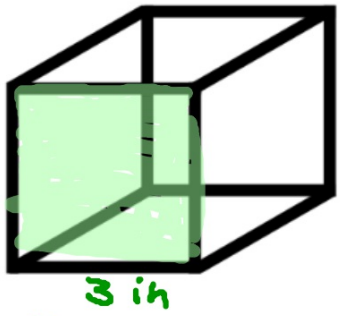
April 23, 2012 M7R

Anything to correct?

"Keep it down. Don't make me come in there."

4/23 - Surface Area

Surface area is the total # of squares on all of the faces added up. Label is units squared.



Find the surface area of this cube with 3 in sides.

$\times 6 = 9 \times 6$

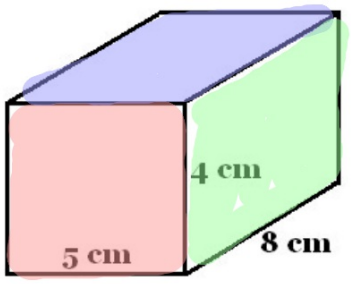
$= 54 \text{ in}^2$

$A = LW$

$= 3 \cdot 3$

$= 9$

Find the surface area of the rectangular prism.



x 2 4cm
5cm
A x 2
= 20cm² x 2

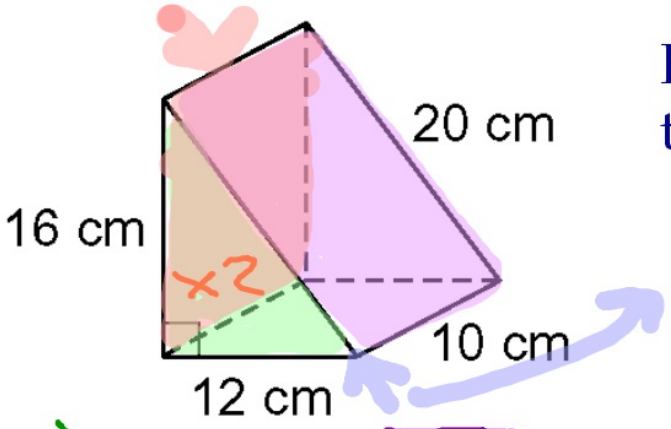
x 2 8cm
5cm
A x 2
40cm² x 2

4cm x 2
8cm
A x 2
32cm² x 2

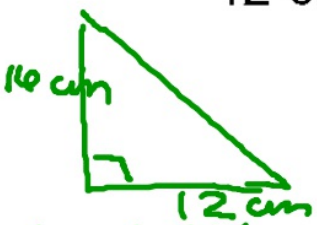
= 40cm² + 80cm² + 64cm²

= 184cm²

Find the surface area of this triangular prism.

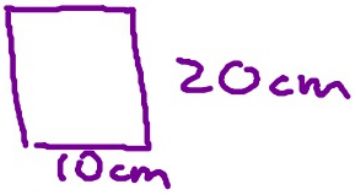


$A = LW$
$= 12 \cdot 10$
$= 120 \text{ cm}^2$

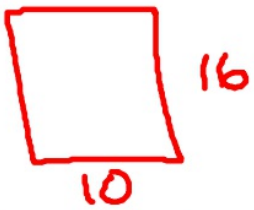


$A = \frac{1}{2}bh$
$= \frac{1}{2} \cdot 12 \cdot 16$
$= 96 \text{ cm}^2$

96 cm²



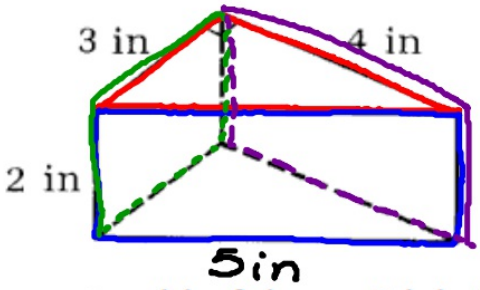
$A = LW$
$= 10 \cdot 20$
$= 200 \text{ cm}^2$



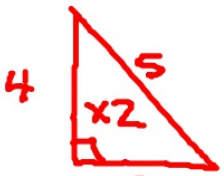
$A = LW$
$= 16 \cdot 10$
$= 160 \text{ cm}^2$

120 cm²
160 cm²
200 cm²
96 cm²
96 cm²

672 cm²



This figure represents a slab of cheese. It is in the form of a right triangular prism. Find the least amount of wrapping needed to cover the cheese on all sides.



$A = \frac{1}{2}bh$

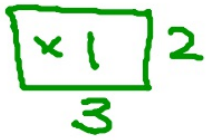
$= \frac{1}{2} \cdot 3 \cdot 4$

$= 6$

$A = LW$

$= 5 \cdot 2$

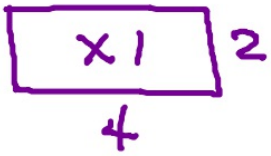
$= 10$



$A = LW$

$= 3 \cdot 2$

$= 6$



$A = LW$

$= 4 \cdot 2$

$= 8$

$$\begin{array}{r} 6 \\ 6 \\ 10 \\ 6 \\ +\ 8 \\ \hline 36\ \text{in}^2 \end{array}$$

Homework

Pink

3D-figures WS3

Due