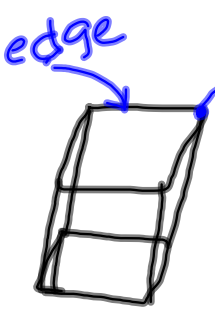
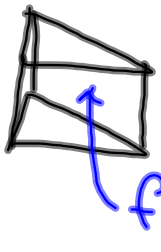
4/17/12 10.5 Classifying Solid Figures

* Pentagonal Prism | Pyramid

PRISM: A solid with 2 parallel bases, that are congruent polygons.

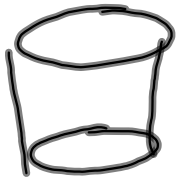


Rectangular prism (Has a Top & bottom)

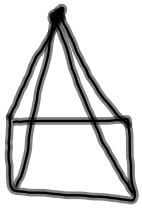


Triangular prism

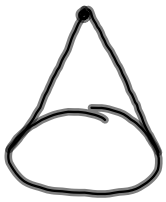
Cylinder: circles as bases



Pyramid: One base at bottom and sides share a common vertex at the top.



Cone: circular base



Sphere: no base, vertex, sides, faces...

4/18/12 10.6 Surface area of a Prism

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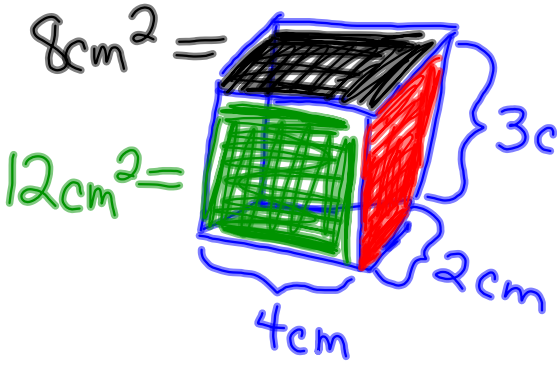

=6cm²

24
X 2
52cm²

8 6 12
+8 +6 +12
+ + =52cm²

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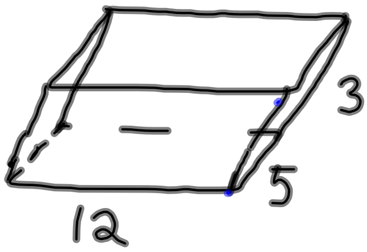

① $222\ mm^2$

② $108\ ft^2$

③ no

$$\begin{array}{r} 12 \\ \times 5 \end{array} \quad \begin{array}{r} 12 \\ \times 3 \end{array} \quad \begin{array}{r} 3 \\ \times 5 \end{array}$$

$$111 = 60 + 36 + 15$$

$$\times 2 \qquad + 60 + 36 + 15$$

$$222 = 120 + 72 + 30$$

2, 4, 6 $\quad \dfrac{\overset{2}{\times 4}}{8} + \dfrac{\overset{2}{\times 6}}{12} + \dfrac{\overset{4}{\times 6}}{24} = 44$

$$\begin{array}{r} 44 \\ \times 2 \\ \hline 88 \end{array}$$

In Class:

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HW:

WS 10.6

#s 1-16