Bellwork 3/21/16
What is the circumference of the circle with Area = 36π
How many faces, edges, and vertices does the figure have?
Verify Euler’s formula.
Draw the net.

Section 11.2: Prisms Day!

Surface area of a prism
What is the area of a rectangle?
1st: Area of the top 144 cm²
2nd: Area of bottom 144 cm²
3rd: Area of sides x # of sides 360 cm²
Total surface area? 1728 cm²

Prism - a polyhedron with:
- 2 congruent and parallel faces called BASES
- lateral faces (rectangles connecting polygon bases)
  * # of lateral faces = # of sides on polygon base
Lateral Area - Area of lateral faces, doesn’t include the bases

How to classify a prism…
- Classify a prism by the shape of the base
  - Triangular Prism
  - Rectangular Prism

General Surface Area
S = 2B + PH
B = area of the base (use area formula)
P = perimeter of the base
H = Height of prism (perpendicular distance from base to base)
Surface Area of a rectangular prism

\[ S = 2B + PH \]

**H** = height of prism (distance from base to base)

**Example 1:** Find Lateral Area and Surface Area

11-2 day 1

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