

HW SOL 8.2

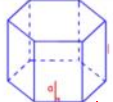
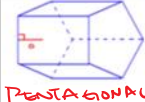




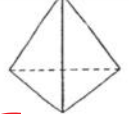
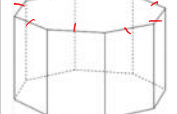


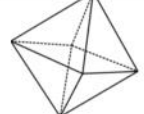
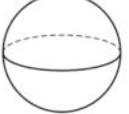
March 2, 2018 9:05 AM

Name: _____




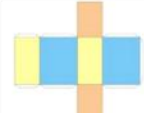
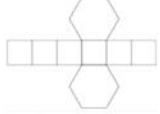


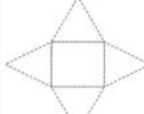
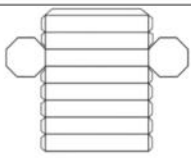
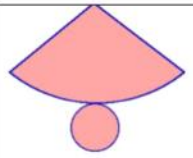

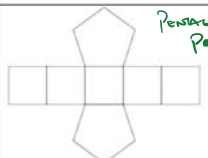
Date: _____

Math 8 HW Section 8.2 Nets of 3D Solids

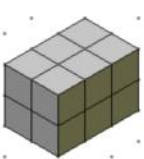
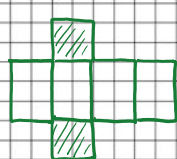
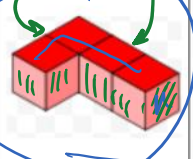
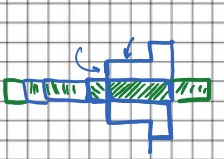

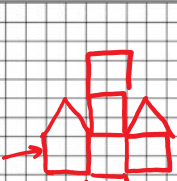
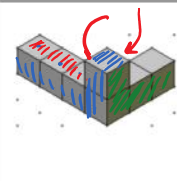
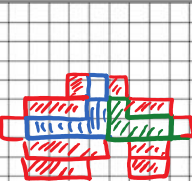
1. Name each of the following solids:

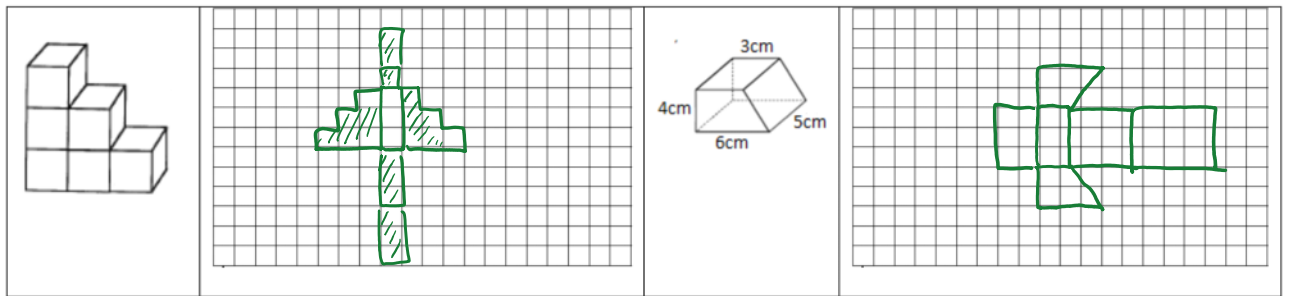
 HEXAGONAL PRISM	 PENTAGONAL PRISM	 TRIANGULAR PRISM	 PENTAGONAL PYRAMID	 RECTANGULAR PRISM	 CUBE
 TRIANGULAR PYRAMID	 OCTAGONAL PRISM	 CONE	 TRAPEZOIDAL PRISM	 OCTAHEDRON	 SPHERE

2. Indicate the solids given each of the following nets:

 TRIANGULAR PRISM	 HEXAGONAL PYRAMID	 TRIANGULAR PYRAMID	 RECTANGULAR PRISM
 HEXAGONAL PRISM	 RECTANGULAR PRISM	 HEXAGONAL PYRAMID	 RECTANGULAR PYRAMID
 OCTAGONAL PRISM	 CONE	 OCTAHEDRON	 PENTAGONAL PRISM

3. Given each solid on the left, draw a net with the grid provided:



4. What are the differences between Prisms and Pyramids?

① Prism: OPPOSITE ENDS ARE CONGRUENT.
 • LATERAL SIDE → RECTANGLES

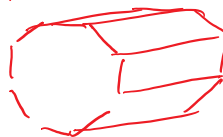
② PYRAMIDS: ALL SIDES ARE TRIANGLES

5. How many sides does a pentagonal prism have? Draw a pentagonal prism and a net with the space provided



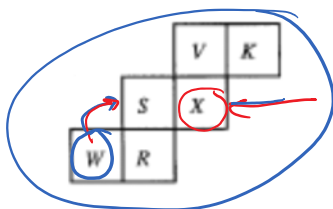
6. Name and draw two solids with 10 sides only.

**NONAGONAL
 PYRAMID**

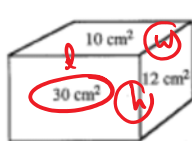


**OCTAGONAL
 PRISM**

7. When the figure is cut out and folded to make a cube, the letter W is on one face. Which letter is on the opposite face?



8. The areas of three of the faces of the rectangular box shown are 10cm^2 , 12cm^2 , and 30cm^2 . What is the volume of the box?



$$\begin{aligned} l &= 5 \\ h &= 6 \\ w &= 2 \end{aligned}$$

$$\begin{aligned} V &= l \times w \times h \\ V &= 5 \times 2 \times 6 \\ V &= 60 \text{ cm}^3 \end{aligned}$$

$$\begin{aligned} l \times h &= 30 \\ h \times w &= 12 \\ l \times w &= 10 \end{aligned}$$

$$l \times w \times h = 60$$

$$l^2 w^2 h^2 = 3600$$

9. An ant wishes to travel from A to B on the surface of a wooden block with dimensions $2 \times 4 \times 8$ as shown. What is the shortest distance the ant can walk?

