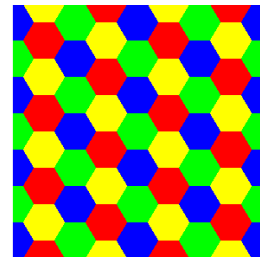
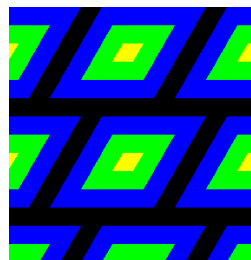
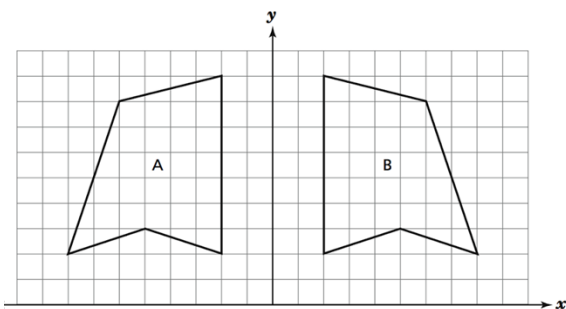
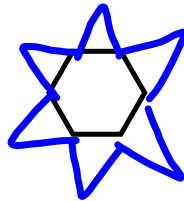


Unit 8: Geometry



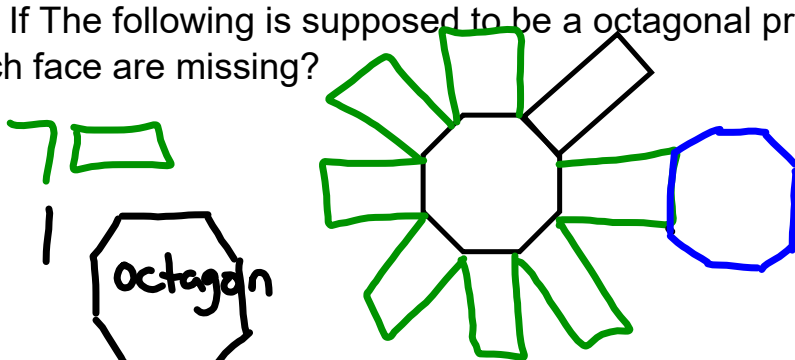
Warm Up grade 8

Ex) If The following is supposed to be a hexagonal pyramid then what/how many of each face are missing?

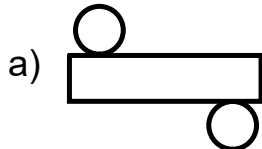


6 Δ needed
6 as sides

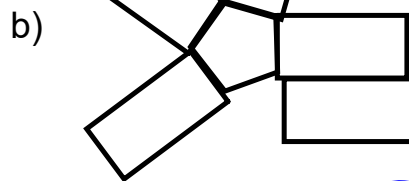
Ex) If The following is supposed to be a octagonal prism then what/how many of each face are missing?



Ex) The following is a net of what?

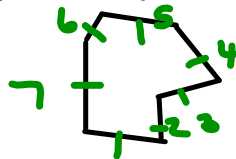


Cylinder



Pentagonal Prism

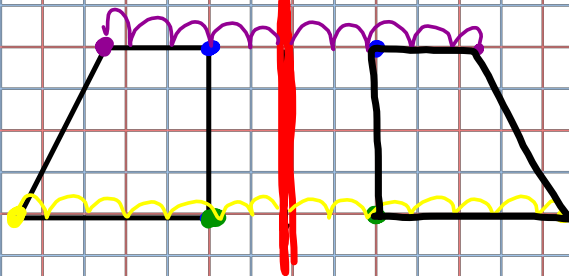
Ex) Name the irregular shape based on the number of sides



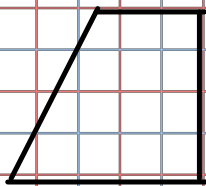
7 sides heptagon

Time to review

Reflection - given the line of reflection (Mirror) place POINTS the same distance from the mirror



Rotation - redraw a picture by rotating the picture about a certain point. Rotations of 90° , 180° , 270° are easy to do. Focus on one line or use tracing paper to help.



rotate 90°

*rotate
270°
90°*

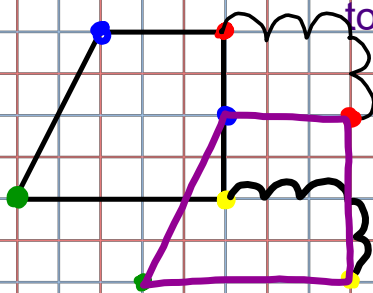
rotate 180°

Translation (Slide) - uses right (R) or left (L) and up (U) or down (D)

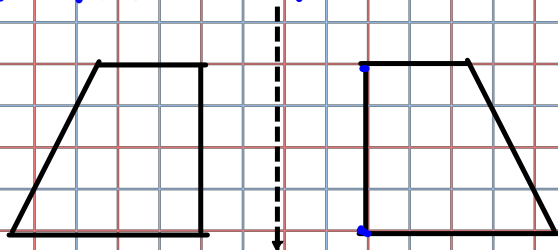
R3 D2)

- Must move every point and then connect the dots

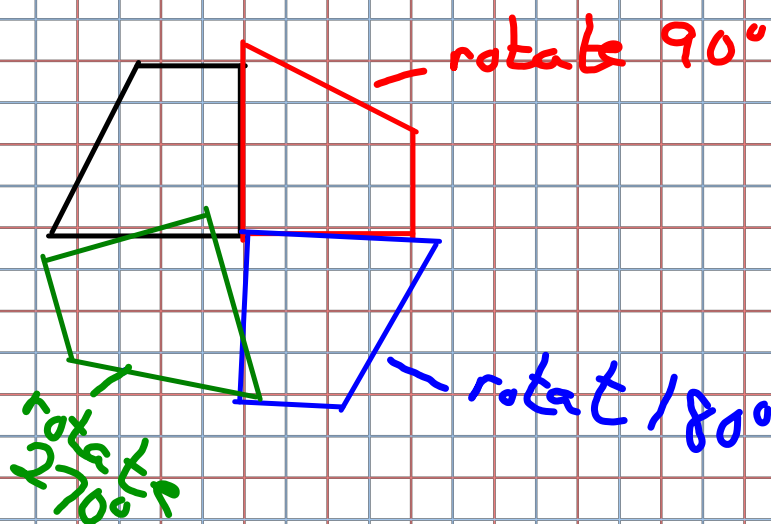
to redraw the picture



Reflection

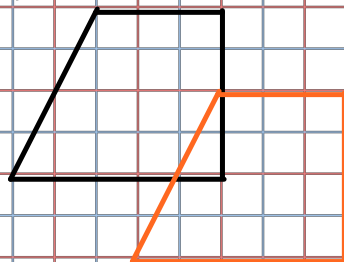


Rotation



Translation (Slide)

(R3, D2)



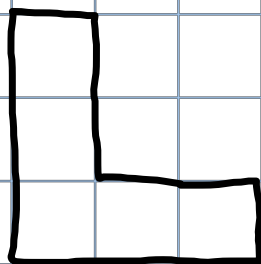
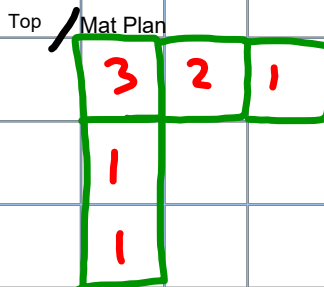
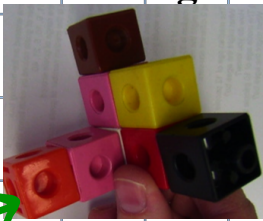
Isometric Drawings

Isometric drawings involve showing the different views, front, side and top views, for different 3D objects. It also involves drawing a **mat plan**, which is the top view but it also indicates the number of blocks in each row.

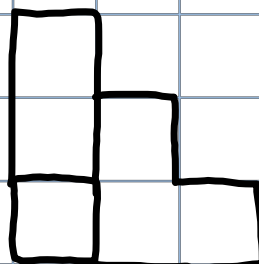
For today, we will look at the different views and mat plan.

Draw the following views for the objects that are held up:

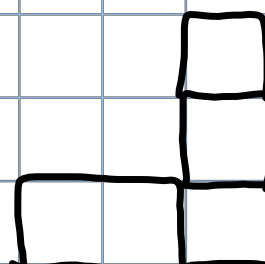
Ex 1)



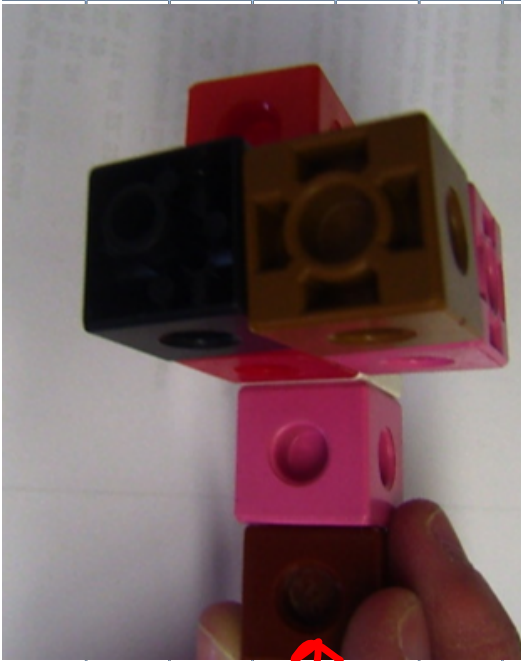
Left



Front



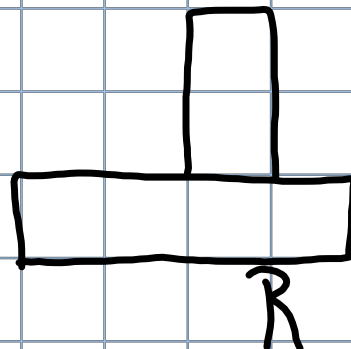
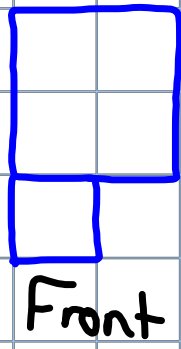
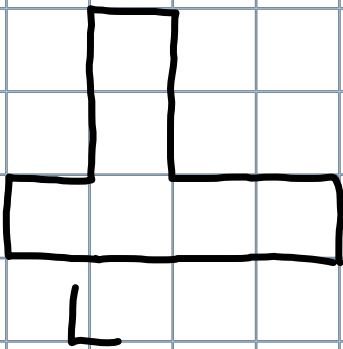
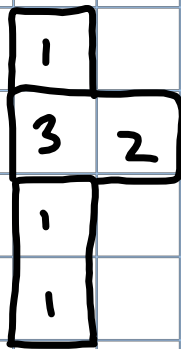
Right



Front

Top / Mat

Top / Mat



Class/Homework

Worksheet 1

#1, #2, #4



Page 437 # 4(a,b,c)

Draw Left, Front, Right and Top and Mat Plans.

	Front	Right	Top	Mat Plan
a)				$\begin{matrix} 3 & 2 \\ & 1 \\ & 1 \end{matrix}$
b)				$\begin{matrix} 3 & 2 & 1 & 1 \\ 3 & 1 & & \\ 1 & & & \\ 1 & & & \end{matrix}$
c)				$\begin{matrix} 3 & 2 \\ 2 & 1 & 1 \\ & 1 & \end{matrix}$
d)				$\begin{matrix} 3 & 2 & 1 \\ 2 & & 1 \\ 1 & & \end{matrix}$
e)				$\begin{matrix} 2 & 3 & 1 \\ & 1 & \\ & 2 & 1 \end{matrix}$

Attachments

WS 1 Sketching Views of Objects.pdf