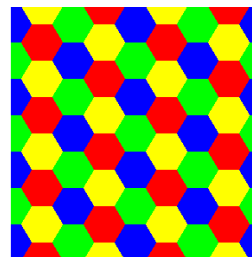
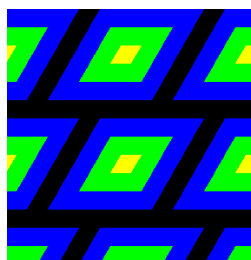
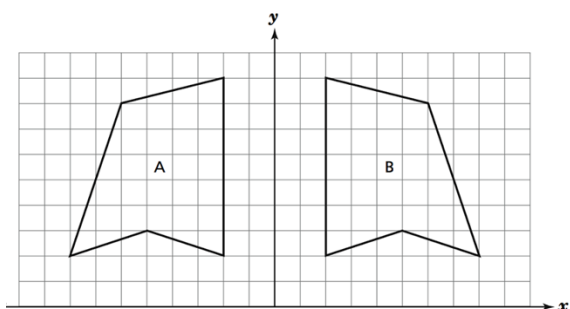
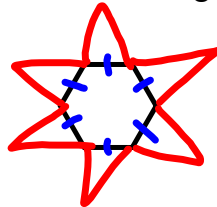


Unit 8: Geometry



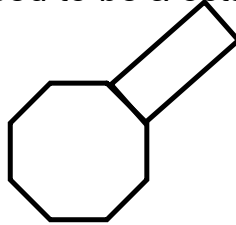
Warm Up grade 8

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



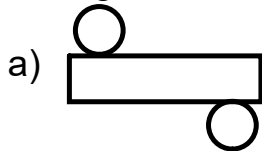
triangles
6 Δ missing

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



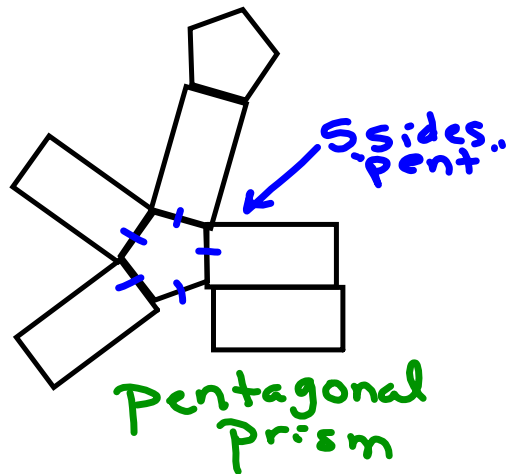
7 rectangles
+
1 octagon
are missing

Ex) The following is a net of what?

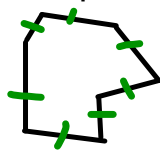


Cylinder

b)



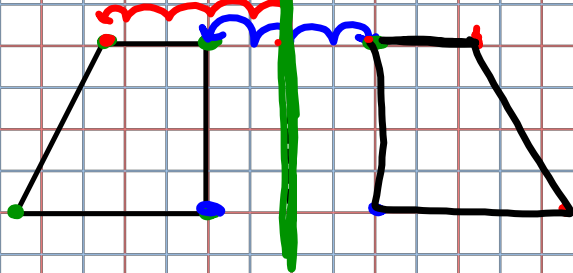
Ex) Name the irregular shape based on the number of sides



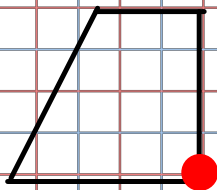
7 sides
heptagon

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°

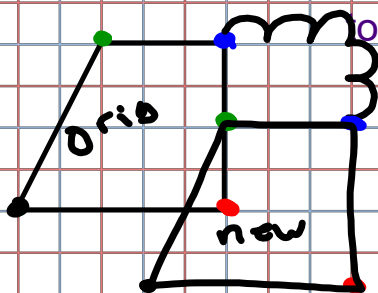
*100%
270%
700%*

— rotate 180°

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

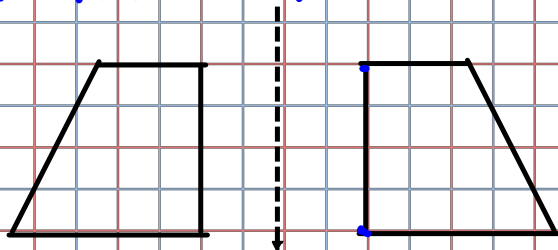
R3 D2)

- Must move every point and then connect the dots

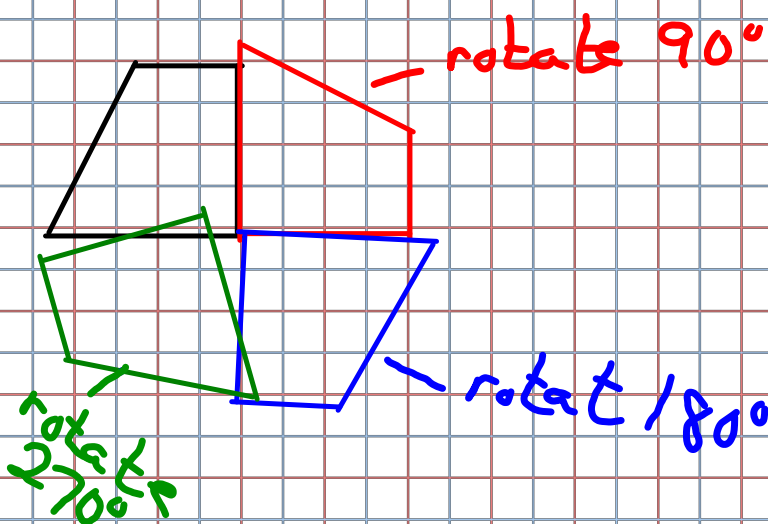


to redraw the picture

Reflection

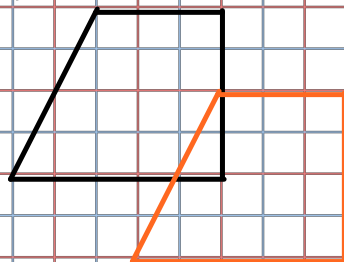


Rotation



Translation (Slide)

(R3, D2)



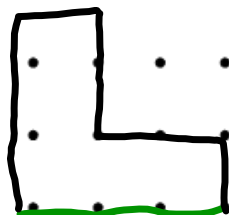
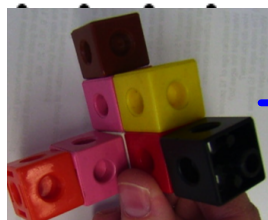
Isometric Drawings

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.

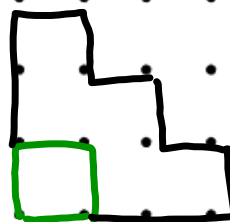
For today, we will look at the different views and mat plan.

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

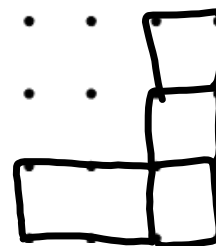
Ex 1)



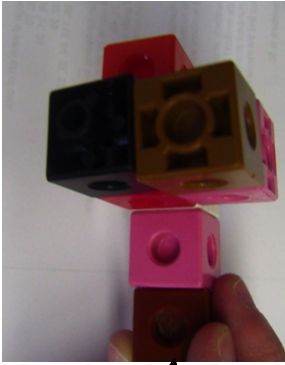
Left



Front



Right



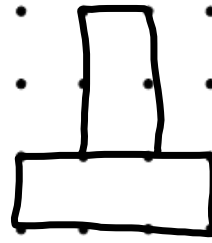
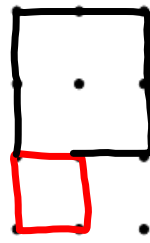
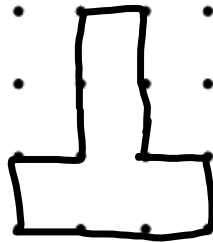
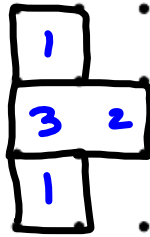
Front

Left

Front

Right

Top/Map



Attachments

WS 1 Sketching Views of Objects.pdf