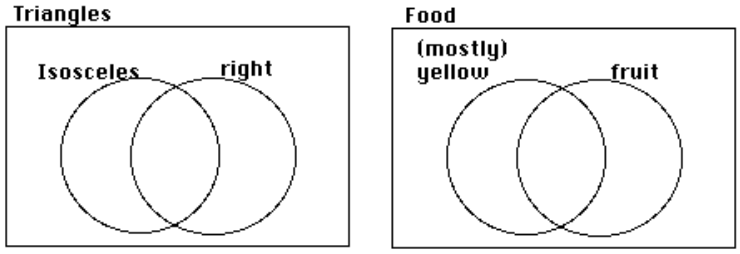
Sets and Geometry Review:

1. Tell two sets that will a. be disjoint, b. be intersecting, c. the second set is a subset of the first

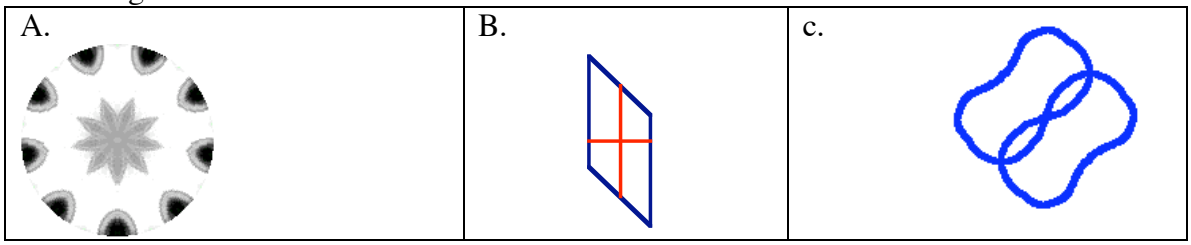
2. Given something in set notation, write a sentence for it, and show it on a diagram, or vice versa (eg. give other representations of the set $C \cap \overline{B}$, where C is people who like carrots, and B is the set of people who like broccoli). There may be several like this, similar to the homework worksheet (the one with the hot dogs/wearing red sets).

3. Give examples of items that would belong in each section of a Venn diagram. For example: show a sample element in each section of the Venn diagram (don't forget the outside):



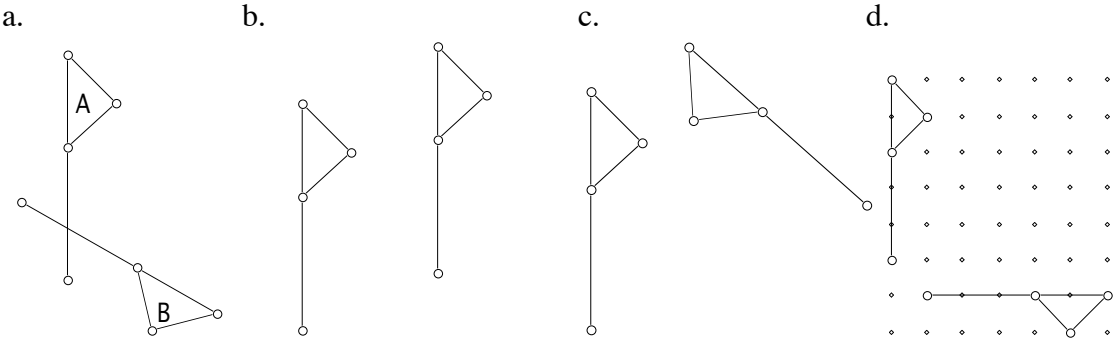
4. Draw a Venn diagram showing the relationships between shapes we have studied. You are responsible for:
Triangles: isosceles, right, acute, obtuse, scalene and equilateral
Quadrilaterals: squares, rhombi, rectangles, parallelograms and trapezoids

5. Draw in all of the symmetry lines, and find the angle of rotational symmetry for each of the following:

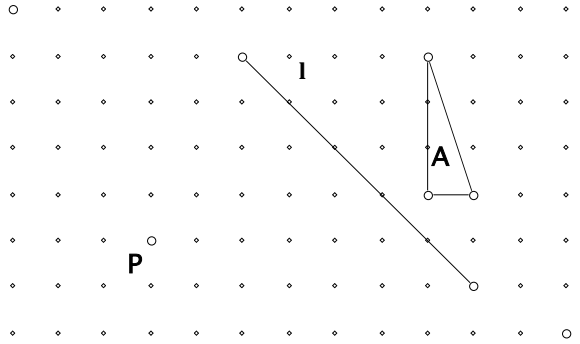


6. Draw a quadrilateral with only one line of symmetry.

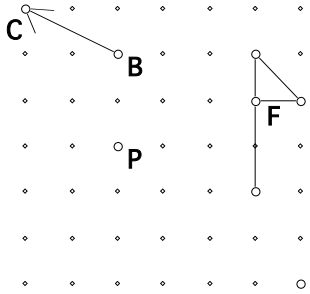
7. The following can be accomplished by a single simple transformation (rotation, reflection or translation). Describe that transformation:



8. Show with a dotted line, the image of triangle A after reflection in line l, and then show with a solid line, where the reflected triangle would be after being rotated by 90° counterclockwise around point P:

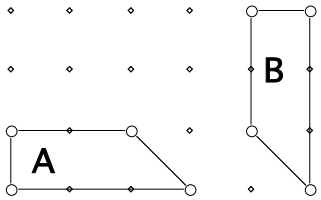


B. Show with a dotted line, the image of flag F after translation $T_{B,C}$, and then show with a solid line, where the translated flag would be after being rotated by 180° around point P:

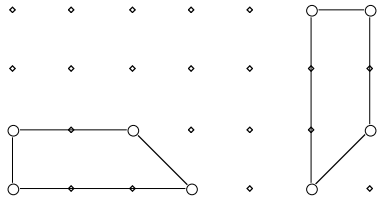


9. Tell how to get from trapezoid A to trapezoid B using 3 or fewer transformations:

A.



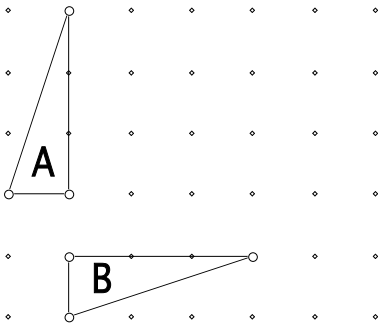
B.



(A on the left)

10. Fix the errors in the explanation of how to get from A to B using 3 or fewer transformations:

A.

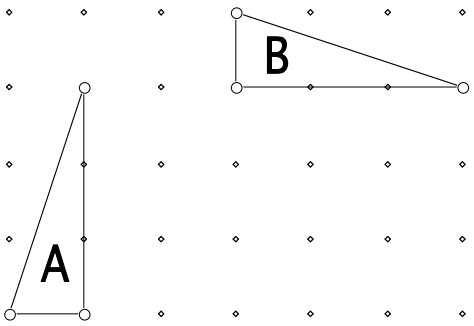


Reflect A vertically

Then rotate A 90°

Then translate down one unit

B.



Rotate A 90°

Then translate to the right 2 and up 4.