Math 9: Symmetry and Surface Area
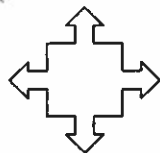
- **Line Symmetry**
  a. Where are the lines of symmetry for the figure?

  b. Given ΔA(5, 6) B(5, 2) C(2, 2) draw the reflection image if the y – axis is the line of reflection. What are the coordinates of A', B', and C'?

  c. Draw ΔABC with coordinates A(5, 5), B(7, 8) and C(9, 5). Translate the triangle 4 units left; what are the new coordinates? Is there a line of symmetry?

- **Rotation Symmetry and Transformations**
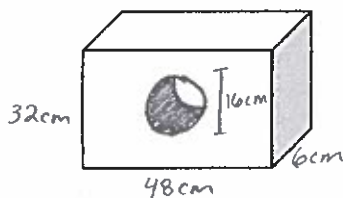 a. What is the order of rotation? What is the angle of rotation?

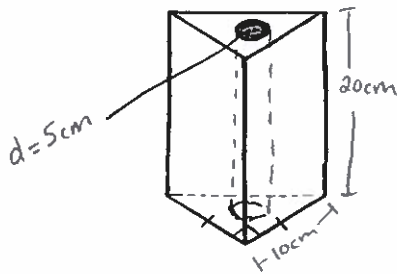 b. What is the number of lines of symmetry? What is the order of symmetry?

- **Surface Area**
  a. Determine the surface area of the following.

  32cm   16cm   6cm

  48cm

  b. Find the surface area.

  20cm

  d=5cm

  10cm

  Questions to Review

  Page   12 # 5 – 10, 13, 15, 19

  21 # 4, 6, 7, 9, 12, 13, 14, 16, 19

  32 #5, 7, 8, 12, 13, 15, 17 **(I would look at these especially if you finish this worksheet early!!!)**

  Symmetry and Surface Area Assignment

  Symmetry and Surface Area Test