1) Draw a dot (●) (this size) on the chirality center(s) in each compound. Write the total number of center(s) found in the box. If none, then write 0 in the box.

2) Identify the following pairs as (I)dentical or (E)nantiomers. Place the appropriate letter in the box.

3) Draw the compound below with wedged (—) and/or dashed (—·—·) lines to show the 3-D aspect of the chirality centers below.
4) Assign Cahn-Ingold-Prelog rankings (1 – 4) to the following substituents.

a) 
\[
\begin{array}{cccc}
\text{C} & \text{C} & \text{CH}_3 & \text{CH}_3 \\
\text{H} & \text{H} & \text{C} & \text{C} \\
\end{array}
\]

b) 
\[
\begin{array}{cccc}
\text{C} \text{O} & \text{O} & \text{C} \text{O} & \text{C} \text{O} \\
\text{CH}_3 & \text{CH}_3 & \text{CH}_3 & \text{CH}_3 \\
\end{array}
\]

c) 
\[
\begin{array}{cccc}
\text{C} \text{N} & \text{H} & \text{C} \text{Br} & \text{C} \text{Br} \\
\text{Br} & \text{H} & \text{Br} & \text{Br} \\
\end{array}
\]

5) Assign R or S configuration to the chiral center(s).
6) Identify whether the following cis/trans molecules are (C)hiral, (M)eso or (N)either chiral nor meso. Place appropriate letter in the box.
7) Identify whether the following molecules are (E)nantiomers, (I)dentical, (D)iastereoisomers, (C)onstitutional Isomers, or (N)ot isomers. Place appropriate letter in the box.
8) Identify whether the following molecules have an (A)xis of symmetry, (P)lane of symmetry or (N)either and axis nor plane of symmetry. Place appropriate letter in the box. (Remember: a plane of symmetry can "slice" atoms in half).