

## Conclusion Questions for Toy Train Project

1.) Why are drawings composed of different line conventions?

1. Answer) Drawings are composed of different line conventions because all of the lines may not be the same. One line may need an adjustment while others may not, so they can't all be drawn the same.

2.) What is the purpose of a sectional view?

2. Answer) A sectional view shows what the inside of a specific part looks like. They can also show how a mechanism within the part could work.

3.) What is the purpose of an auxiliary view?

3. Answer) The purpose of an auxiliary view is to show the actual surface area of an angled face in a multiview sketch from an angle.

4.) Why are symbols used instead of words to identify hole types?

4. Answer) Symbols, instead of words, are used to identify hole types because it is more efficient and looks better on paper. Symbols can also allow people of other regions to read the drawing since the symbol used is one of the ones of engineering.

5.) What advantage is there to using algebraic equations instead of numerical values when defining the dimensions of a CAD model?

5. Answer) The advantage of using algebraic equations when defining the dimensions of a CAD model is that you can use the equation to find the dimensions of other components of an object. The dimensions can also be calculated more accurately.

6.) What three types of constraints can be applied to CAD sketches or models?

6. Answer) The three types of constraints are geometrical constraints, symmetrical constraints, and numerical constraints.

7.) What advantages do CAD drawings have over paper sketches?

7. Answer) CAD drawings are neater, quicker to make, more precise, more available space to work with, unlimited resources to use, availability to apply constraints to a sketch, and can be shared more easily.