

Line Standards and Layers

Answers to Chapter 5 Review

1. Identify the following linetypes.

Answers:

- A. object line (or visible line)
- B. hidden line
- C. centerline (or symmetry line)
- D. extension line
- E. dimension line
- F. leader line
- G. section line
- H. cutting-plane line (or viewing-plane line)
- I. break line
- J. phantom line
- K. stitch line

2. How can you tell if a layer is off, thawed, or unlocked by looking at the **Layer Properties Manager**?

Answer: The status icons to the right of the layer name represent the current settings.

3. Should you draw on the 0 layer? Explain.

Answer: No. The 0 layer is primarily reserved for drawing blocks. Each object should be drawn on a layer specific to the object.

4. Identify two ways to access the **Layer Properties Manager**.

Answer: Pick the **Layer Properties** button on the **Layers** panel on the **Home** tab of the ribbon, or enter LA or LAYER.

5. How can you enter several new layer names consecutively in the **Layer Properties Manager** without using the **New Layer** button?

Answer: Type each layer name and then press the comma key to create another new layer.

6. How do you make another layer current using the **Layer Properties Manager**?

Answer: Double-click the layer name, pick the layer name and select the **Set Current** button, or right-click on the layer and select **Set Current**.

7. How do you make another layer current using the ribbon?

Answer: Display the **Layer Control** drop-down list in the **Layers** panel on the **Home** tab of the ribbon and pick the desired layer name to make it current.

8. How do you make another layer current using the command line?

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Answer: Begin typing the letters in a layer name on the command line. From the suggestion list that appears, select the layer to set it current.

9. How can you display the **Select Color** dialog box from the **Layer Properties Manager**?

Answer: By picking the color swatch for one of the layer names.

10. List the names and numbers of the first seven colors in the AutoCAD Color Index (ACI).

Answer: The first seven colors are red (1), yellow (2), green (3), cyan (4), blue (5), magenta (6), and white (7).

11. How do you use the **Layer Properties Manager** to change the linetype assigned to a layer?

Answer: Highlight the layer and pick its current linetype. In the **Select Linetype** dialog box, pick the desired linetype, and pick **OK**.

12. What is the default loaded linetype in AutoCAD?

Answer: Continuous

13. What condition must exist before you can assign a linetype to a layer?

Answer: The linetype must be loaded.

14. Describe the basic procedure to change a layer's linetype to HIDDEN.

Answer: Display the **Layer Properties Manager**, pick the linetype icon for the layer you want to change, and select the linetype from the **Select Linetypes** dialog box. If the HIDDEN linetype has not yet been loaded, you must first pick the **Load...** button to display the **Load or Reload Linetypes** dialog box and load the linetype.

15. What is the function of the linetype scale?

Answer: The linetype scale sets the lengths of dashes and spaces in linetypes.

16. Explain the effects of using a global linetype scale.

Answer: The global linetype scale can be changed to adjust the lengths of dashes and spaces in all the linetypes in the drawing.

17. Why do you have to be careful when changing linetype scales?

Answer: Be careful when changing linetype scales to avoid making your drawing look odd and not in accordance with drafting standards.

18. What is the state of a layer not displayed on-screen and not calculated by the computer when you regenerate the drawing?

Answer: Frozen

19. Explain the purpose of locking a layer.

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Answer: A layer can be locked when you wish to prevent editing the objects on the layer, but still want to view the objects on-screen.

20. Explain the difference between a locked layer state and layer transparency.

Answer: Transparency is a layer property that makes objects transparent.

Locked layer fading is a function of the lock state, intended for onscreen drawing purposes only. For example, you can plot transparent objects, but you cannot plot locked faded layers.

21. Identify the following layer status icons.

Answer:

A. **On**

B. **Off**

C. **Thawed**

D. **Frozen**

E. **Unlocked**

F. **Locked**

22. Identify at least three layers that you cannot delete from a drawing.

Answer: (Any three) The 0 layer, the current layer, layers containing objects, and layers associated with an external reference.

23. Describe the purpose of layer filters.

Answer: Layer filters allow you to display only the layers you want in the **Layer Properties Manager**.

24. Which button in the **Layer Properties Manager** allows you to save layer settings so they can be restored later?

Answer: The **Layer States Manager** button.

25. In the **Tree View** pane of **DesignCenter**, how do you view the content categories of one of the listed open drawings?

Answer: Pick the plus sign (+) next to the drawing icon.

26. How do you display all the available layers in a drawing in **DesignCenter**?

Answer: In the **Tree View** pane, pick the **Layers** category from the list of content categories for the drawing.