Multi-State Advanced Manufacturing Consortium

US DOL SPONSORED TAACCCT GRANT: TC23767

PRIMARY DEVELOPER: Reggie Fluker – Henry Ford College

RELEASE DATE 12/26/2015

VERSION v 002

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Unit 3 Computer Aided Design
UNIT EXAM

1. After launching Sketchup, the first step is to _____
   a. Open the Large Tool Set
   b. Choose a template
   c. Begin drawing 2D shapes
   d. Go to the 3D Warehouse

2. Which menu allows you to look at a model from a particular side e.g. left, front, or top?
   a. View
   b. Window
   c. Edit
   d. Camera

3. How do you display all axes (width, height, and depth) in the drawing area?
   a. Zoom-in on the window
   b. Switch to Iso view
   c. Open the All Axes view
   d. Zoom-out of the window

4. TRUE or FALSE: To draw shapes in SketchUp, you should click and release the mouse button as opposed to clicking and dragging the mouse
   a. True
   b. False

5. You are re-arranging your living room and have created a 3D model to represent the space (walls, windows, doors); what's the quickest way to add furniture to your model?
   a. Draw the furniture using 2D shapes and the push/pull tool
   b. Import a picture of your household furniture
   c. Download furniture models from the 3D Warehouse
   d. Download objects from the Furniture Warehouse

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6. Which tool would transform a 2D square into a 3D cube?

    a. Push/Pull

    b. Orbit

    c. Axes

    d. Zoom

7. Which of the following features allows you to draw accurately in SketchUp?

    a. Pencil tool

    b. Inference points

    c. Freehand tool

    d. Instructor window

8. In SketchUp, every shape or model is comprised of _____

    a. Scenes and sections

    b. Lines and surfaces

    c. Circles and rectangles

    d. All of the above

9. How many objects can be selected in a two-dimensional rectangle?

    a. One (the rectangle is one object)

    b. Two (the rectangle surface and the border line)

    c. Five (the rectangle surface and four lines)

10. What are the steps to draw objects to specific measurements?

    a. Start drawing, type dimensions, press Enter

    b. Draw object, select object, type dimensions

    c. Type dimensions, draw object, press Enter

    d. All of the above will work

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11. Inferences points allow you to draw precisely _____

    a. On the edge of an object

    b. At the center of an object

    c. On the endpoint of an object

    d. All of the above

12. To create a sphere, you can intersect two circles and use the _____

    a. Rotate tool

    b. Follow Me tool

    c. Orbit tool

    d. Offset tool

13. What are the steps to use the Follow Me tool?

    a. Select a path, click the tool, click the shape that should follow the path

    b. Click the tool, select a path, click the shape that should follow the path

    c. Click the shape that should follow the path, click the tool, select a path,

    d. Select a path, click the shape that should follow the path, click the tool

14. To navigate around a 3D model viewing all of its sides, use the _____

    a. Move tool

    b. Pan tool

    c. Zoom tool

    d. Orbit tool

15. To slide an object left, right, up, and down without navigating around the model, use the _____

    a. Move tool

    b. Pan tool

    c. Zoom tool

    d. Orbit tool

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16. What are the steps to create a hexagon?

    a. **Click the polygon tool, enter "6", draw shape**

    b. Click the polygon tool, draw shape

    c. Click the polygon tool, enter "8", draw shape

    d. Enter "6", click the polygon tool, draw shape

17. How do you zoom-in on a model using the mouse?

    a. **Roll the scroll-wheel**

    b. Click and drag with the left mouse button

    c. Click and drag with the right mouse button

18. How do you orbit a model using the mouse?

    a. Hold the SHIFT key and press the scroll-wheel

    b. **Press the scroll-wheel and move the mouse**

    c. Roll the scroll-wheel

19. How do you pan a model using the mouse?

    a. Press the scroll-wheel and move the mouse

    b. Roll the scroll-wheel

    c. **Hold the SHIFT key and press the scroll-wheel**

20. Review Diagram 1. Which tool is used to position the center line so that model A appears like model B?

    a. **Move tool**

    b. Push/Pull tool

    c. Line tool

    d. Follow Me tool

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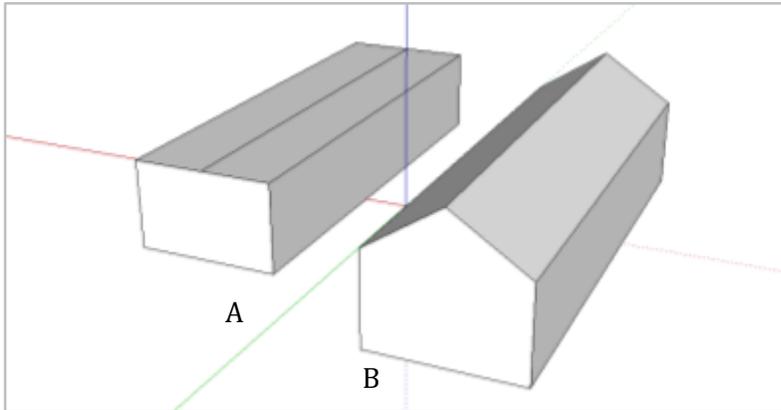VERSION   v 002
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DIAGRAM 1

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