## **Layout Reading Questions**

Use Eck's Textbook, Section 6.7, for this reading. `	You can skip sections 6.7.2, 6.7.3, 6.7.4, and 6.7.6.
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1.	Containers (circle all that apply)	
	a) Include the content pane of JFrame	c) Might be JPanels
	b) Are components	d) Come with default layouts
2.	Layout considers s and p	·
3.	Each container can specify a different layout manager by using the method set().	
4.	Layout managers are in what class that you v	would import? java. a
5.	Next to each container, write the default lay	
	a) JPanel's default layout is      b) JFrame's default layout is	
6.		a Frame. We will continue to do that. For other components, they are add(). If the container (a JPanel) is called holdIt and the component is t would place the button on the container.
7.	To set the size of a container, you can use the Otherwise, the layout manager may set the s	e method(). size of the container.
sizes ma questio	ay not be fixed for all layouts). Redraw the co	s shown below. They are shown in their default preferred sizes (but mponents in the layouts being described for each of the following low. If an object is repeated in a list of components, assume the el.
	75 x 15 button	→ 100 x 10 slider
8.		out.CENTER, 50, 20)). The following are then added to the JPanel in a JPanel would finally look like. Draw the slider and button
9.	Code is setLayout(new BorderLayout(10, 20)	. The following are then added to the JPanel with the associated

slider(BorderLayout.CENTER). Show what the JPanel would finally look like.

\*Note that these are added in the same order the layout will be normally established – North/South gets handled before East/West, then Center last (taking up remaining space). Use the box on the next page.

positions indicated as shown: button (BorderLayout.SOUTH), button(BorderLayout.WEST),

10.	Code is setLayout(new GridLayout(2, 4, 10, 5). The following are then added to the JPanel with the in order: slider, button, slider, slider, button, button, button, slider. Show what the JPanel would finally look like. Note that the components will resize to fill each of their spaces completely.
11.	Now consider Null Layout, which we will tend to avoid (the reading explains why). To the left or below of each line of pseudocode, add the line of code to do what the pseudocode describes.
	// set container holdIt to have a null layout
	// set button onto holdIt (don't worry about size and placement)
	//make button be 100 x 200 pixels placed with its top left corner at (0,50) on holdIt. (Width is 100.)
12.	The final layout required in class is Card Layout. Eck doesn't have a tutorial on it, so refer to Oracle's tutorial at <a href="http://docs.oracle.com/javase/tutorial/uiswing/layout/card.html">http://docs.oracle.com/javase/tutorial/uiswing/layout/card.html</a> (if you didn't know, Oracle owns the Java language now). In the example in this tutorial, a different method is used to establish the layout of cards, the container JPane that holds two other panels (card1 and card2). Next to each line of pseudocode, write the code found in the tutorial Part of two lines are written in a slightly modified way for you to make answering the last part of this question easier.
	= ( ( ()); // establishes layout of cards JPanel
	(, "Card with JButtons"); // puts card1 JPanel onto cards
	(, "Card with JTextField"); // puts card2 JPanel onto cards
card1	is meant to be shown, then fill in the line of code below to do this
ardLay	outInstance.show (, "JButtons")
	Write a list of four other methods you can use to display different card panels (other than show()). (* In case you were wondering, the first card is the first one added when the card stack is generated.)