**Android Questions**

1. What is a ViewPager?
   1. Layout manager that allows the user to flip left and right through pages of data. You supply an implementation of a [PagerAdapter](https://developer.android.com/reference/android/support/v4/view/PagerAdapter.html) to generate the pages that the view shows.
2. What is PagerAdapter?
   1. Base class providing the adapter to populate pages inside of a [ViewPager](https://developer.android.com/reference/android/support/v4/view/ViewPager.html). You will most likely want to use a more specific implementation of this, such as [FragmentPagerAdapter](https://developer.android.com/reference/android/support/v4/app/FragmentPagerAdapter.html) or [FragmentStatePagerAdapter](https://developer.android.com/reference/android/support/v4/app/FragmentStatePagerAdapter.html).
3. What is FragmentPagerAdapter?
   1. Implementation of [PagerAdapter](https://developer.android.com/reference/android/support/v4/view/PagerAdapter.html) that represents each page as a [Fragment](https://developer.android.com/reference/android/support/v4/app/Fragment.html) that is persistently kept in the fragment manager as long as the user can return to the page.
4. What is FragmentStatePagerAdapter?
   1. Implementation of [PagerAdapter](https://developer.android.com/reference/android/support/v4/view/PagerAdapter.html) that uses a [Fragment](https://developer.android.com/reference/android/support/v4/app/Fragment.html) to manage each page. This class also handles saving and restoring of fragment's state.
5. What is a Fragment?
   1. May or may not be part of an activity
   2. Sub-activity
   3. Can run without user interface
   4. Own layout, own behavior, own lifecycle callbacks
   5. Can dynamically add fragments to running activity
   6. Once created, can be used in multiple activities
   7. Closely knitted with parent’s lifecycle, when activity is paused or stopped, fragment replicates that
   8. Tablets have multiple fragments running side-by-side in 1 activity
6. What is an activity?
   1. Single screen with a user interface
7. What is FragmentManager?
   1. Interface for interacting with [Fragment](https://developer.android.com/reference/android/app/Fragment.html) objects inside of an [Activity](https://developer.android.com/reference/android/app/Activity.html)
8. What is FrameLayout?
   1. Designed to block out area on the screen to display a single item
   2. Generally used to hold a single child view
   3. Difficult to organize child views to different screen sizes without children overlapping each other
9. What is RelativeLayout?
   1. View group that displays child views in relative positions
   2. Each view can be specified as relative to sibling elements or in positions relative to the parent RelativeLayout area
10. Match\_parent
    1. View wants to be as big as its parent minus padding
11. Wrap\_content
    1. Just big enough to enclose its content plus padding
12. What is LinearLayout?
    1. View group that aligns all children in a single direction, vertically or horizontally
    2. Can specify layout direction