



# Exercises, Problems, and Projects

## Multiple-Choice Exercises

1. How do we import `View.OnClickListener` (if we want to use code like `View.OnClickListener listener`)?
  - Importing the `View` class is sufficient
  - It is automatically imported
  - ☒ We must import `View.OnClickListener`;
  - We must import `OnClickListener`;
2. What is the name of the abstract method of `View.OnClickListener`?
  - `listen`
  - `click`
  - ☒ `onClick`
  - `clickListen`
3. What method of the `ViewGroup` class do we use to add a child `View` to a parent `View`?
  - `addChild`
  - ☒ `addView`
  - `moreView`
  - `newView`
4. We are coding inside the private class `Y`, which is coded inside the public class `X`. How do we access the current object of the `Y` class?
  - ☒ `this`
  - ~~☐ `Y.this`~~
  - `Y.this`
  - `this.X`
5. We are coding inside the private class `Y`, which is coded inside the public class `X`. How do we access the current object of the `X` class?
  - `this`
  - ☒ `X.this`
  - `Y.this`
  - `this.X`
6. How do we retrieve the size of the screen (assuming that size is a `Point` object reference)?
  - `getWindowManager().getSize()`;
  - `getDefaultDisplay().getSize()`;
  - ☒ `getWindowManager().getDefaultDisplay().getSize()`;
  - `getWindowManager().getDefaultDisplay().getSize()`;

7. What is the data type of this in the code `GridLayout GridLayout = new GridLayout( this )`?
- ☒ GridLayout
  - ☐ Context
  - ☐ Grid
  - ☐ View
8. What method of the GridLayout class do we use to set the number of rows of the grid?
- ☐ setRows
  - ☒ setRowCount
  - ☐ setCount
  - ☐ numberOfRows
9. What method of the Activity class do we use to set the view for an activity?
- ☐ setLayout
  - ☒ setContentView
  - ☐ setView
  - ☐ view
10. Inside an Activity class, how do we instantiate a button?
- ☐ `Button b = new Activity( );`
  - ☐ `Button b = new Button( );`
  - ☒ `Button b = new Button( this );`
  - ☐ `Button b = new Button( Activity );`
11. What class is used by views to tell their parents how they want to be laid out?
- ☐ Layout
  - ☐ Params
  - ☐ ViewParams
  - ☒ LayoutParams
12. What method do we use to specify the alignment of the text within a TextView?
- ☐ setAlignment
  - ☐ center
  - ☒ setGravity
  - ☐ align

## Fill in the Code

13. Assign the width of the current screen to a variable name width.

```
// Your code goes here
```