```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:orientation="vertical"
tools:context=".MainActivity" >

<GridView
android:id="@+id/gridView"
android:numColumns="3"
android:gravity="center"
android:layout_width="match_parent"
android:layout_height="match_parent" />
</LinearLayout>
```
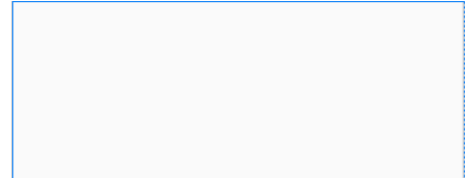
Item 1	Item 2	Item 3
Sub Item 1	Sub Item 2	Sub Item 3
Item 4	Item 5	Item 6
Sub Item 4	Sub Item 5	Sub Item 6
Item 7	Item 8	Item 9
Sub Item 7	Sub Item 8	Sub Item 9
Item 10	Item 11	Item 12
Sub Item 10	Sub Item 11	Sub Item 12
Item 13	Item 14	Item 15
Sub Item 13	Sub Item 14	Sub Item 15

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
android:orientation="vertical" android:layout_width="match_parent"
android:layout_height="match_parent">

<ImageView
android:id="@+id/imageView"
android:layout_width="match_parent"
android:layout_height="match_parent" />
</LinearLayout>
```

```java
public class MainActivity extends AppCompatActivity {
GridView gridView;
Integer[] imgId = {R.drawable.pic1, R.drawable.pic2,R.drawable.pic3,
R.drawable.pic4, R.drawable.pic5,R.drawable.pic6,
R.drawable.pic7, R.drawable.pic8,R.drawable.pic9};
String[] imgName = {"그림1","그림2","그림3","그림4","그림5",
"그림6","그림7","그림8","그림9"};
MyGridAdapter adapter;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);

gridView = findViewById(R.id.gridView);
adapter = new MyGridAdapter(this);
gridView.setAdapter(adapter);
}
// 내부클래스로 어댑터 만들기 :
// 생성자에서 레이아웃과 리스트 (배열) 별도로 필요하지 않다.
class MyGridAdapter extends BaseAdapter{
Context context;
public MyGridAdapter() {         }
public MyGridAdapter(Context context) {this.context = context; }

@Override
public View getView(final int i, View view, ViewGroup viewGroup) {
// 리턴할 이미지뷰를 생성
ImageView imageView = new ImageView(context);
// 이미지 뷰 크기 설정
imageView.setLayoutParams(new GridView.LayoutParams(400,500));
// 이미지 여백
imageView.setPadding(5,10,5,10);
// 이미지 배치
imageView.setImageResource(imgId[i]);

imageView.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {
Toast.makeText(MainActivity.this, imgName[i], Toast.LENGTH_SHORT).show();
}
});
return imageView;
}
@Override
public int getCount() {    return imgId.length;         }
@Override
public Object getItem(int i) {  return imgId[i];        }
@Override
public long getItemId(int i) {  return i;          }

}
}
```