

This collection of exercises includes 5 files:

### **Identifying Symmetry Exercise**

(22-symmetry drawing.pdf)

This is a problem set/lab exercise that involves about a dozen different drawings depicting 2-dimensional symmetry. Students must identify the symmetry present in each drawing. Some drawings are similar to lattices – point arranged in a pattern. Some involve motifs that repeat according to a lattice. None of the drawings in this exercise really deal with identifying point symmetry. However, the accompanying file (Drawings Showing Point Symmetry) deals only with point symmetry – and makes a good companion to this problem set.

### **Symmetry Drawings Answers**

22-symmetry drawing answers.pdf

Answers for **Identifying Symmetry Exercise**

### **Drawings Showing Point Symmetry**

23-point symmetry drawings.pdf

This is a two page document that includes examples of point symmetry. Students must identify the symmetry present in each of the drawings. All (2-d) plane groups are included (except that glide planes have been ignored). This document makes good fodder for in-class/group learning.

### **Symmetry Quiz**

symm quiz.pdf

This was created so that I could assess whether students could identify symmetry. It could also be used as an in-class/group exercise.

### **Answers for Symmetry Quiz**

symm quiz answers.pdf