

Sharp Corners

You need a classmate

a protractor

Activity One

The world in-line skating championships are being held in Skatesville. Michael is designing the course. He knows he has to be very careful about corners. The course needs to have:



four grade 1 corners like this



where the turn is between 0° and 45°

six grade 2 corners like this



where the turn is between 45° and 90°

four grade 3 corners like this



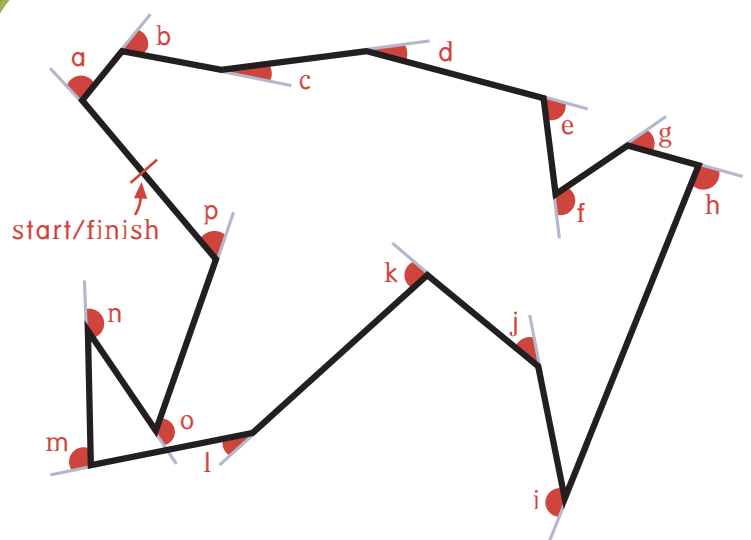
where the turn is between 90° and 135°

two grade 4 corners like this



where the turn is between 135° and 180°

1.
 - a. Which corners will be the fastest to go around?
 - b. Which corners will be the slowest?
2. Here is the course that Michael has designed. Did he get the right number of each corner?





Activity Two

1. Design your own in-line skating course with at least 10 corners. Before you start, write down what grades you intend to use.
2. Show your course to a classmate. Does your course meet the grade requirements you set?

