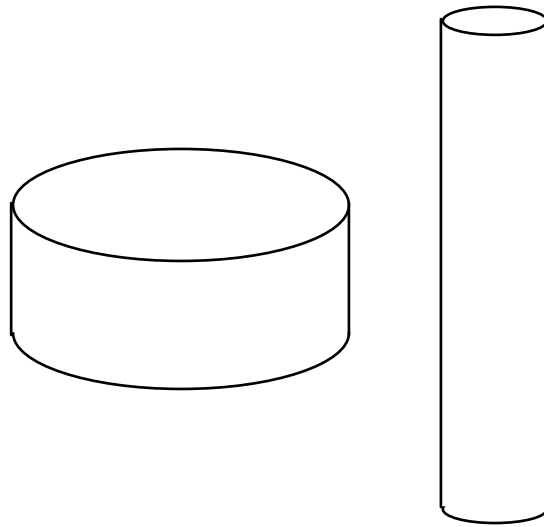# The Disc Problem

A can of soup, a coin, and a piece of spaghetti are all cylinders even though they look very different. One might say the coin is more "disc-like" than the spaghetti.

1. Given the variety of cylinders you have: Devise a definition of disc-ness that allows you to say which object is the most disc-like and which is the least.

2. Write a **formula** (or **algorithm** or **algebraic sentence**) which expresses your measure of disc-ness. You may introduce any labels and definitions you like and use all the mathematical language you care to.

3. Make any measurements you need, and calculate a **numerical value** of disc-ness for each of the six items.

4. Discuss whether these numbers seem reasonable in light of your notion of disc-ness.

5. How would you change your answers to these questions if you were asked to write a formula for cylinder-ness rather than disc-ness?