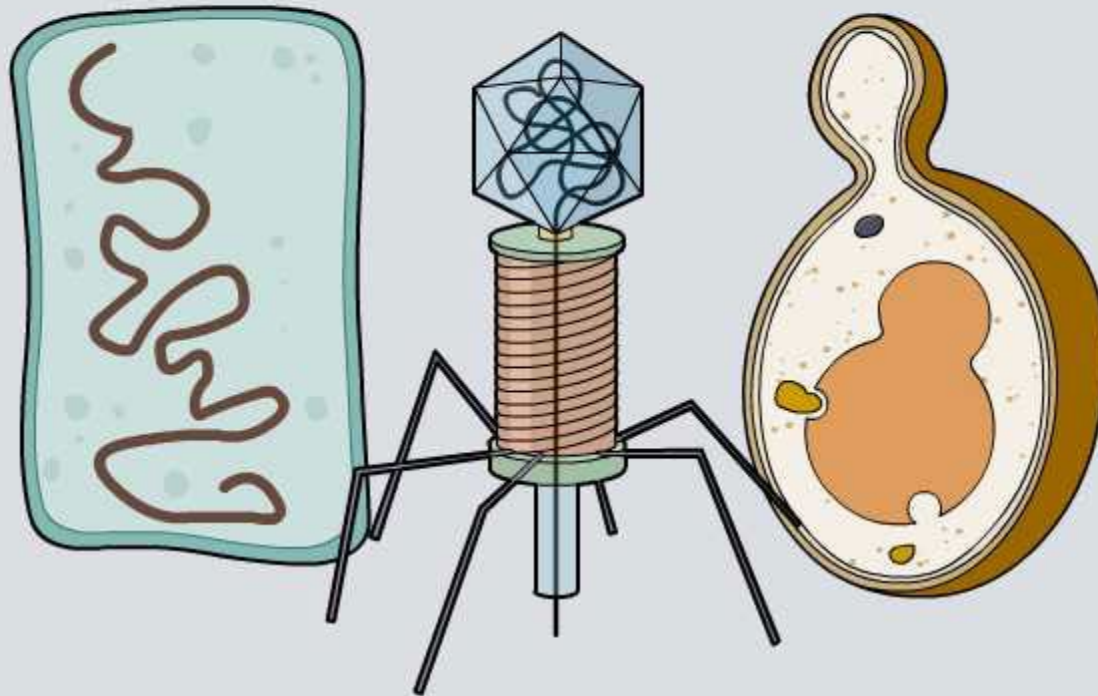


What Are Microbes?



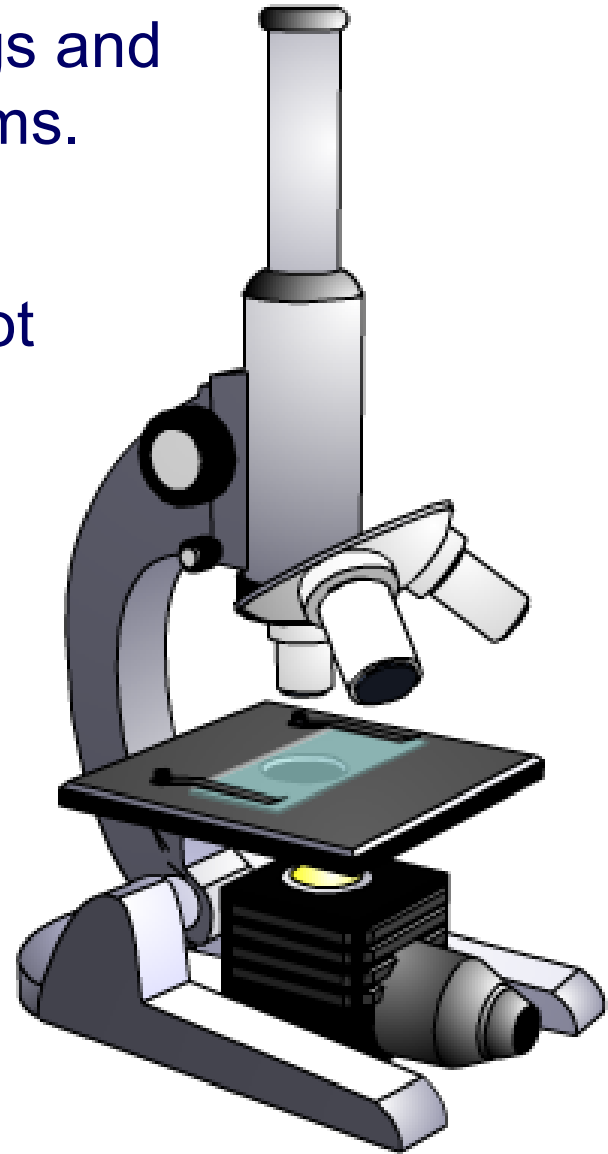
What are microbes?

Microbes are very small living things and are sometimes called microorganisms.

Microbes are so tiny that they cannot be seen with the naked eye.

They can only be seen using a microscope.

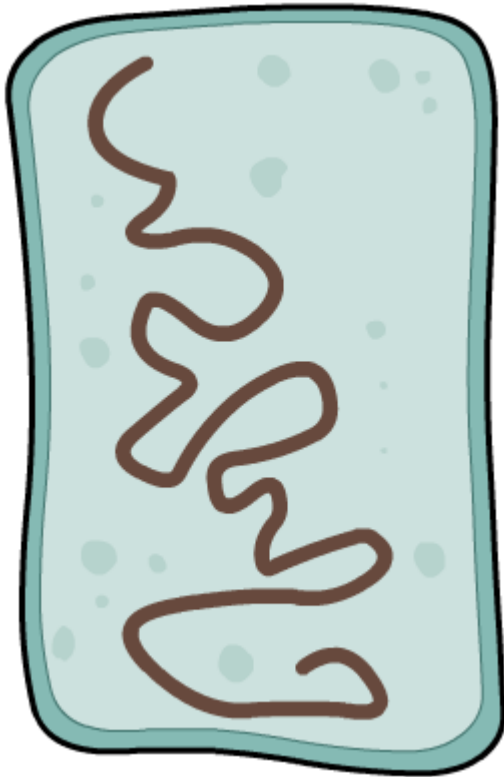
How many different microbes can you name?



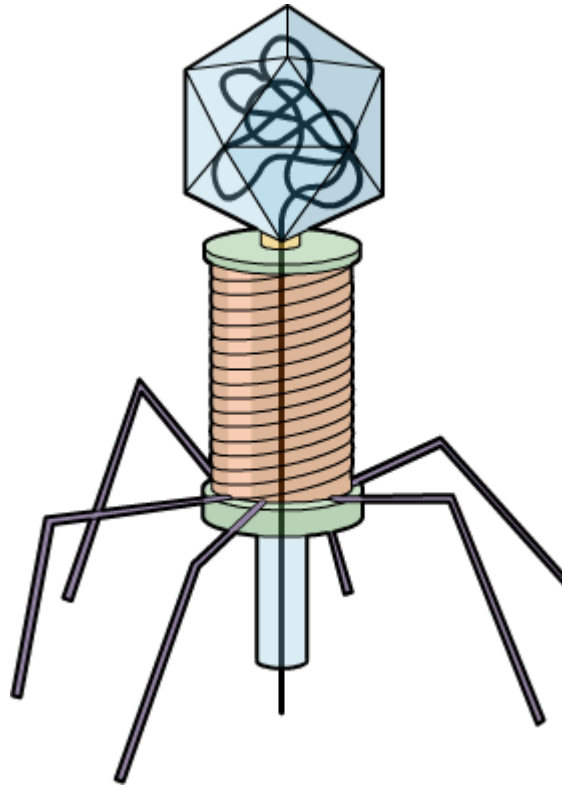
Different types of microbes

There are three types of microbes:

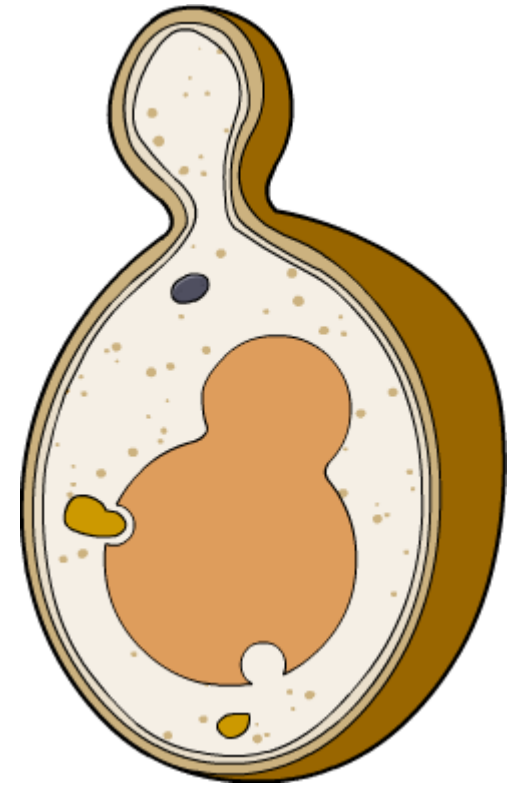
bacteria



viruses



fungi

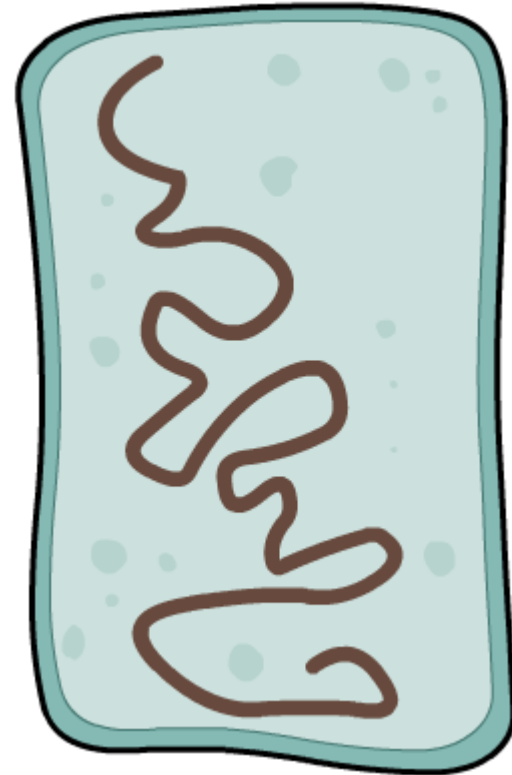


Microbe: Bacteria (e.g. salmonella and streptococcus)

Size: 1/1000 mm

Shape: Bacteria can be spherical, rod-shaped or comma-shaped.

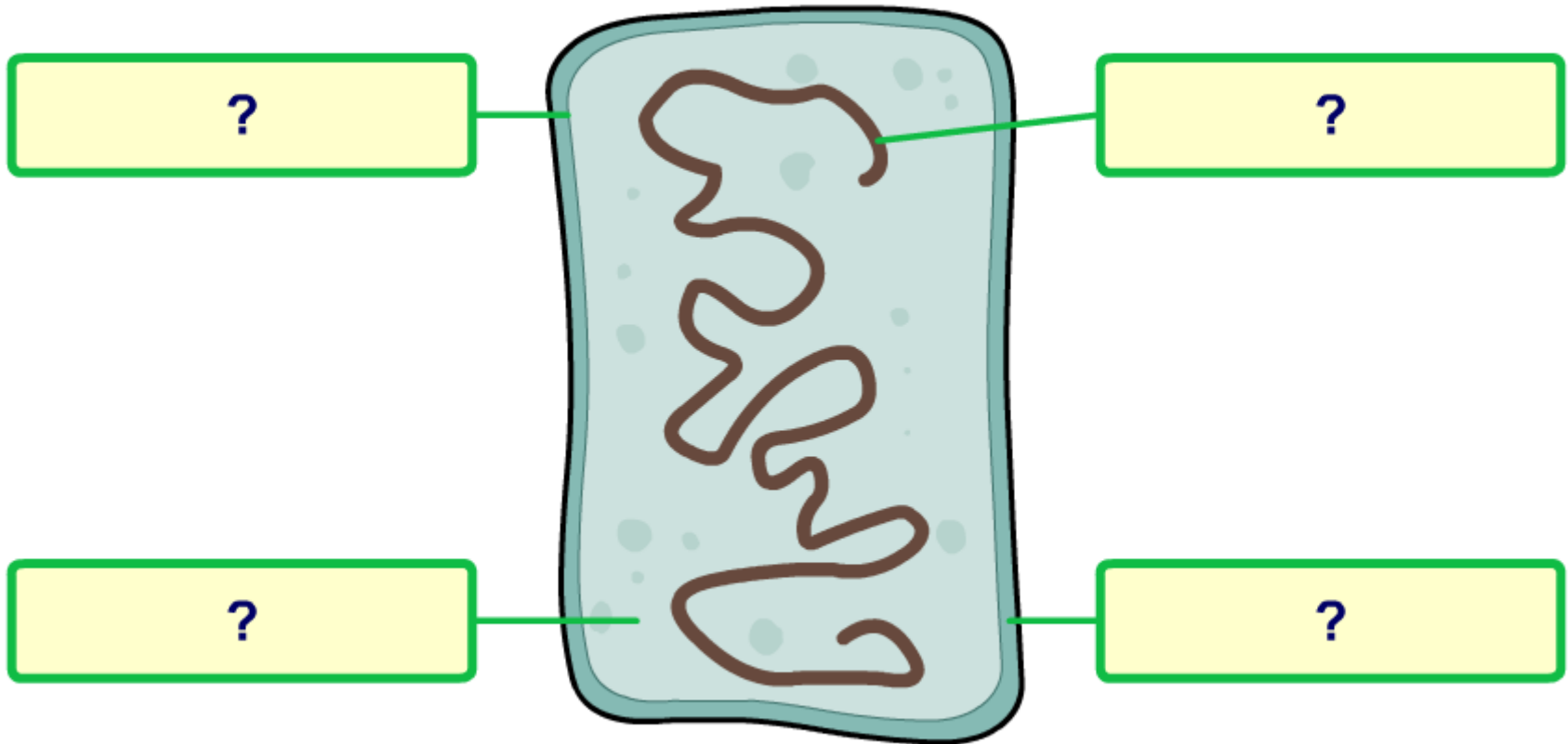
Structure: Bacteria are single-celled organisms. Their genetic material is not contained within a nucleus. Some cause disease, but many are useful.



Reproduction: Bacteria reproduce very quickly. Two can very quickly become four, then eight and so on.



What are the parts of a typical bacterial cell called?

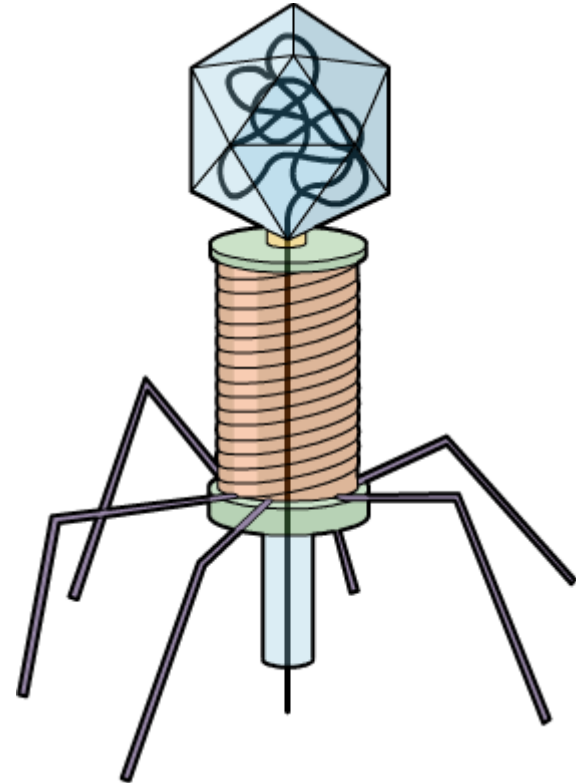


Microbe: Virus (e.g. flu virus and HIV)

Size: 1/1,000,000 mm

Shape: Viruses have regular and geometric shapes.

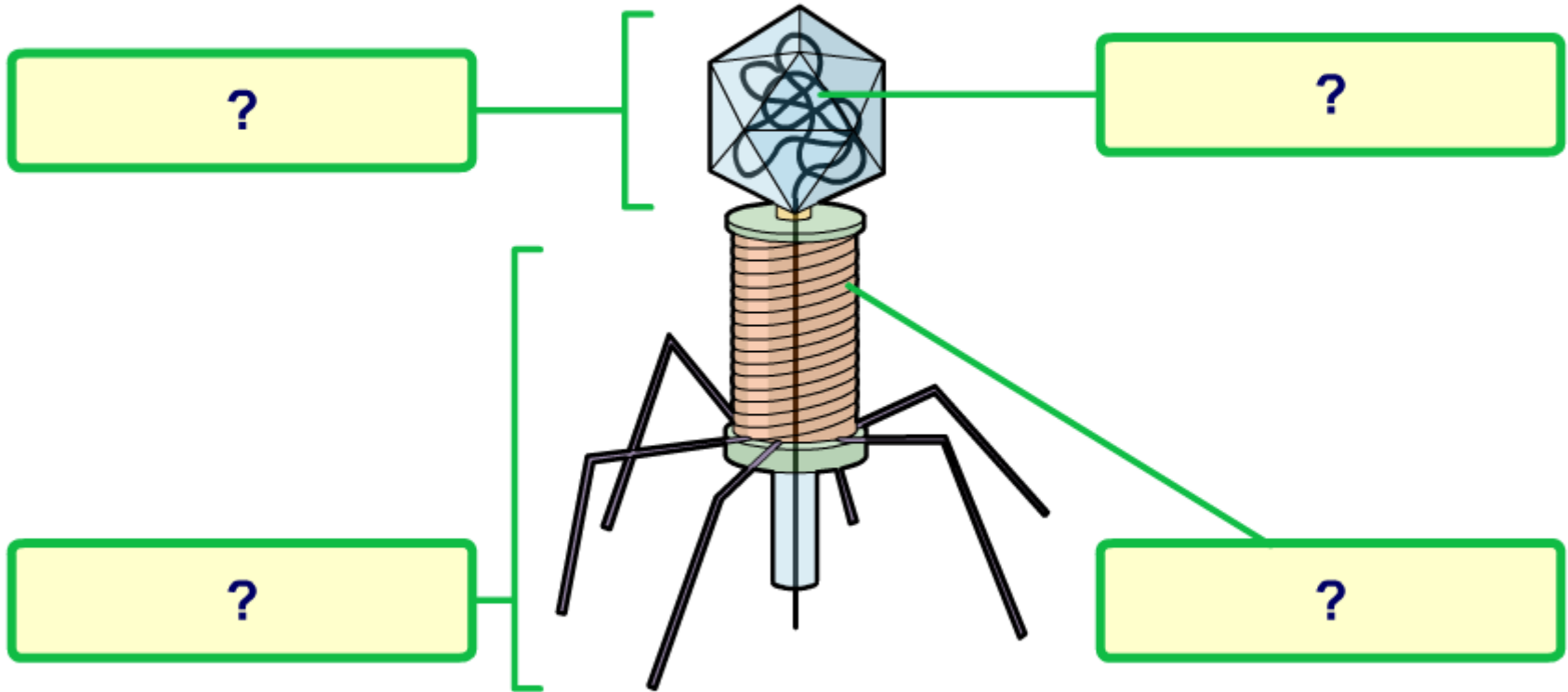
Structure: A virus is a simple organism that does not display all the characteristics of a living thing. It is made up of a protein coating and some genetic material.



Reproduction: Viruses can only grow and reproduce within other living things. Viruses change and adapt to their environment very quickly.



What are the parts of a typical virus called?

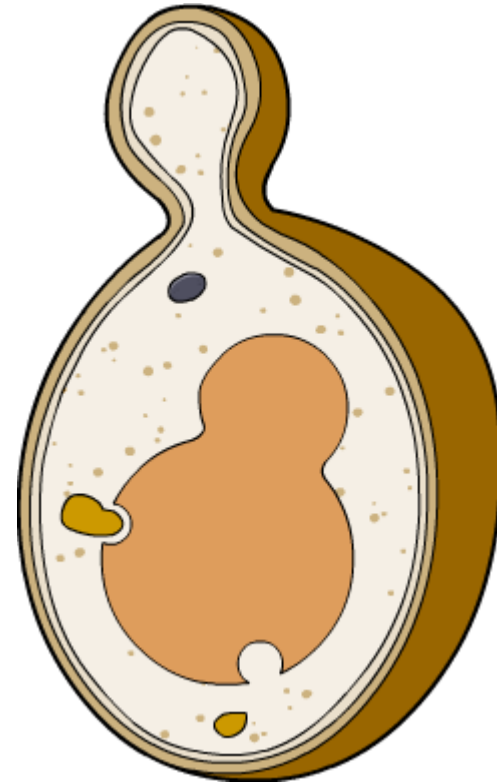


Microbe: Fungi (e.g. penicillium and yeast)

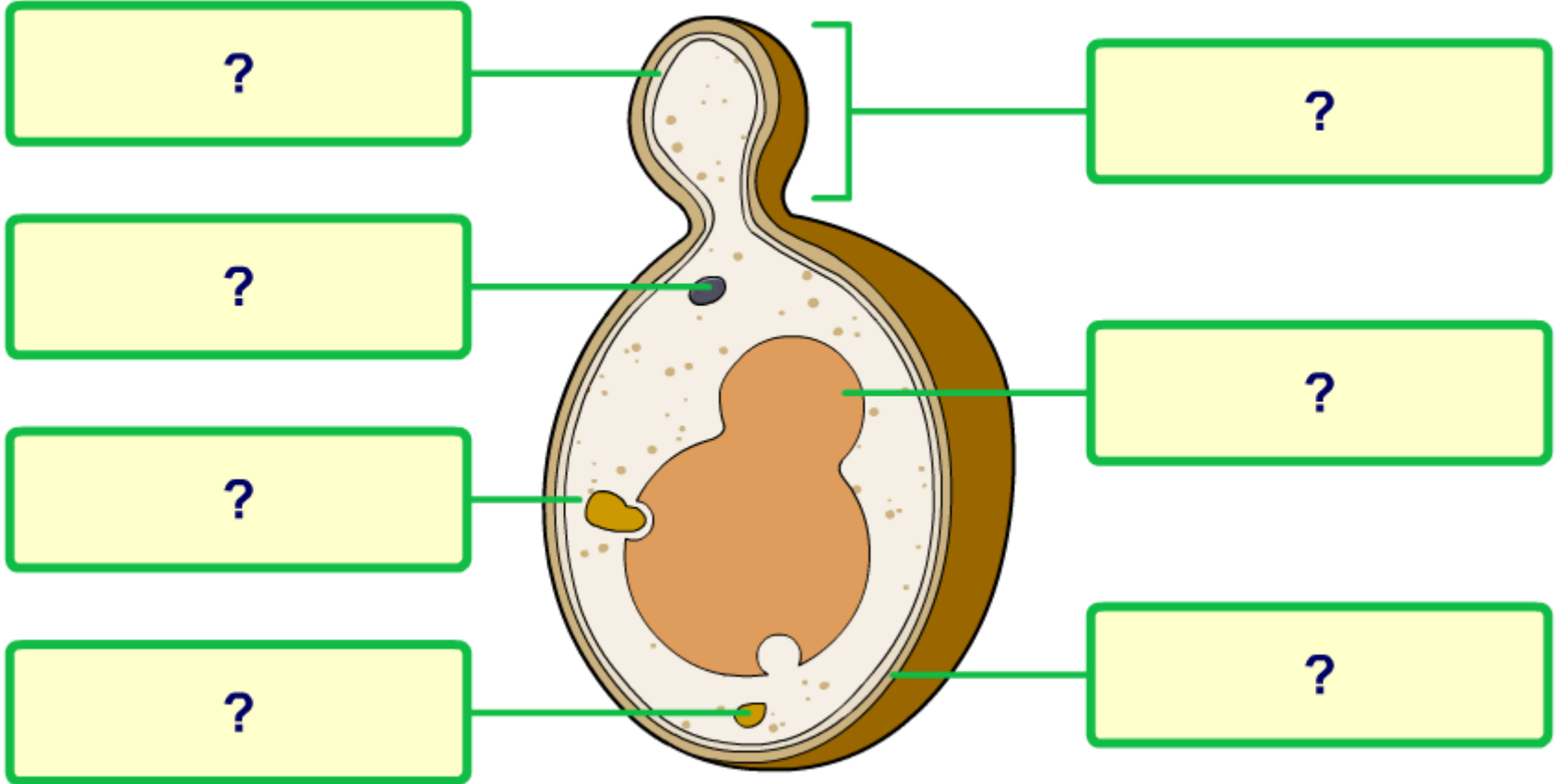
Size: Some fungi can actually be seen with the naked eye, others are slightly bigger than bacterial cells.

Shape: Fungi come in many different shapes.

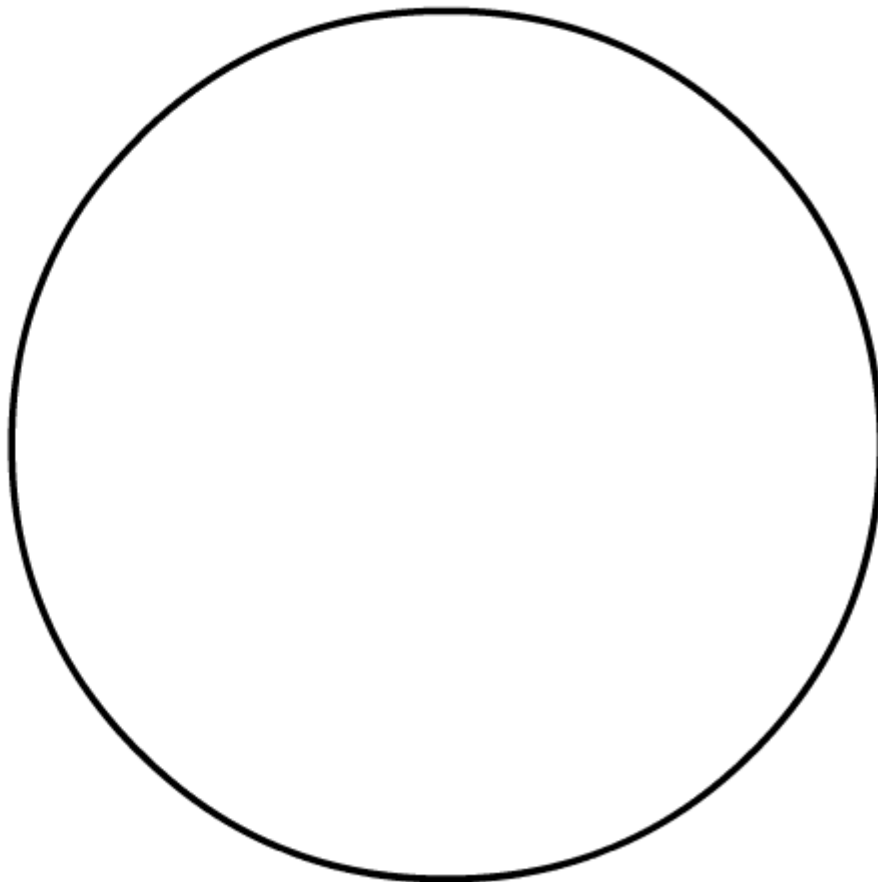
Structure: Fungi have the most complex structures of all the microbes. They feed off other living things.



What are the parts of a typical fungal cell called?



What do microbes really look like?



bacteria:



fungi:



virus:

