Fill in the venn diagram comparing snakes and



Do snakes and worms belong to the same kingdom?

How many **DOMAINS**?

3 Bacteria, Archae, Eukarya

How many **KINGDOMS**?

6 Eubacteria
Archaebacteria
Protista
Fungi
Plantae
Animalia



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Kingdom Animalia:

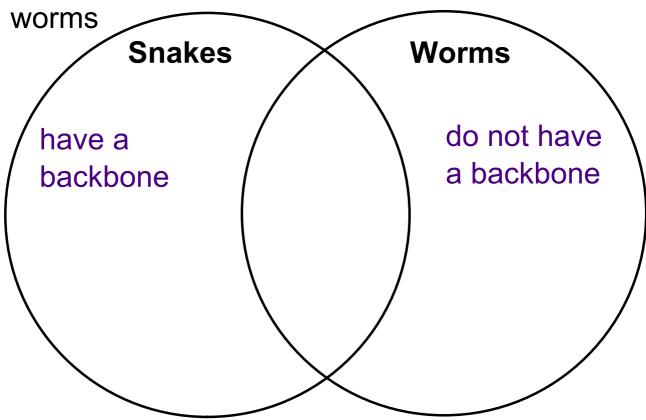
multicellular

do not have cell walls

cannot make their own food (must get their food by eating other organisms

most can move from place to place

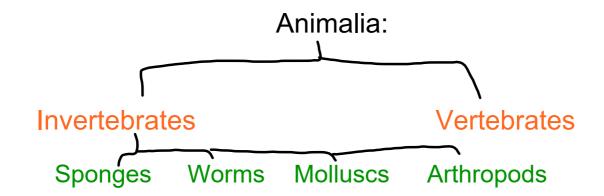
Fill in the venn diagram comparing snakes and



Invertebrates: animals without backbones

Vertebrates: animals with backbones.

98% of all animals are invertebrates!



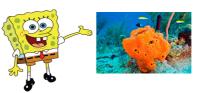
Classifying Invertebrates

Invertebrates

Sponges Worms Molluscs Arthropods

Using your invertebrate phyla chart, classify each of the following as one of the above phyla.





Snail soft body parts, with shell

Sponge: soft, spongy tissue



Earthworm soft body parts, without shell



Crayfish
hard skin covering
joined body parts
10 legs



Ant hard skin covering joined body parts six legs and no wings



The octopus is a mollusc but because it does not have a shell to protect itself, it has adapted by having a large and complex brain.

Classifying I	nvertebrates
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Test Your Memory:

How many domains of life are there?

How many Kingdoms are there?

How many phyla are there in the invertebrates of Kingdom Animalia?

What are these four phyla?

Test Your Memory:

How many domains of life are there?

3: bacteria, archae, eukarya

How many Kingdoms are there?

6: eubacteria, archaebacteria, protista, plantae, animalia, fungi

How many phyla are there in the invertebrates of Kingdom Animalia?

4

What are these four phyla?

sponges, worms, molluscs, arthropods

Of all the invertebrate phyla, arthropods contain the greatest diversity of animals.

Arthropods include:

lobsters

centipedes

spiders

crabs

scorpions

shrimp

and insects

Arthropods are found in more habitats in the world than any other animal group. Their **adaptations** are what make them so successful in different habitats.

What is an adaptation?

Adaptations are special features that help living things survive in different habitats.

Some adaptations of arthropods are:

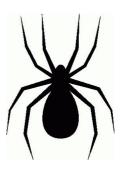
harder outer body covering called an exoskeleton (ex: beetle)



specialized mouth parts (ex: mosquito can

suck victim's blood)





segmented body (ex: centipede)



Classifying Invertebrates

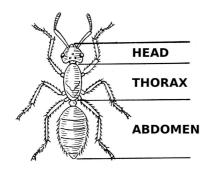
Is a spider an insect?

All arthropods are not the same!

Although spiders and insects are classified as arthropods, they belong to different subgroups.

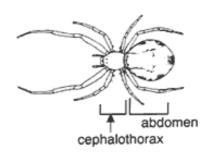
Insects:

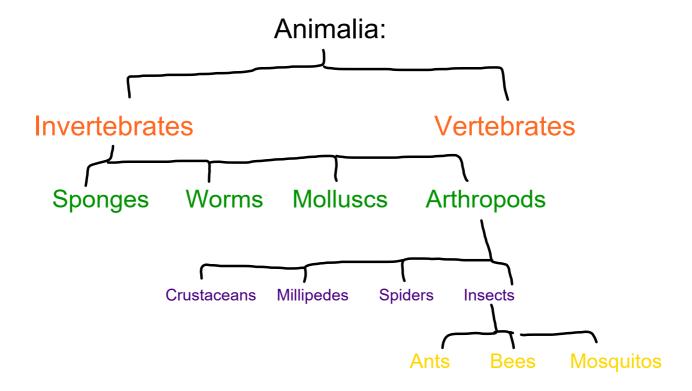
- -have three main body parts (head, thorax, abdomen)
- -have six legs
- -have up to four wings t hat come our of the thorax.



Spiders:

- -have two body parts (head and thorax combined and the abdomen
- -have eight legs.





The Worm:

Place your worm on a piece of paper and use a magnifying class to investigate the following.

Does it have a head?

Does it have a tail?

Does it have legs?

Is it segmented? (Is the body made up of sections?)

Is there anything else you want to investigate with this worm?