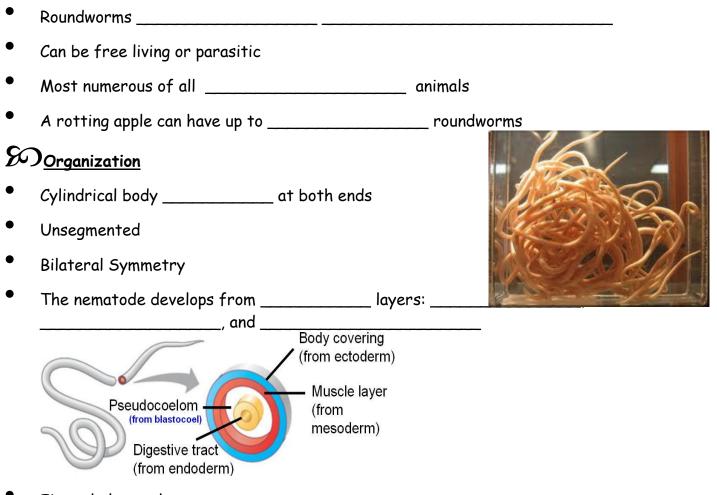
Phylum Nematoda – Roundworms

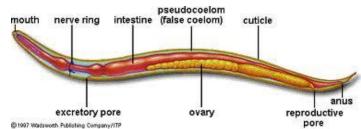
Nematodes



- First phylum to have a _____
 - Pseudocoelem fluid-filled cavity that acts as a hydrostatic skeleton to maintain body shape, ______ nutrients, and hold the major body organs

8 Digestion

- - _____ digestive tract made up of mouth, pharynx, intestine, & anus
 - Food ______ through the mouth and undigested materials ______ through the anus



Dirculation/Respiration/Excretion

- _____ circulatory or respiratory system; Rely on DIFFUSION for movement of nutrients and gases
- Cellular wastes ______ through body to excretory pore in body wall

DNervous System

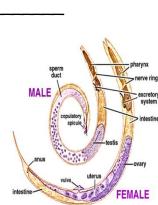
- _____ (groups of nerve cells) in the anterior "head" region
- _____ run from "head" down the length of body
 - These transmit sensory information and control movement
- Organs sensitive to ______ given off by predators/prey
 Cuticle
 Dorsal nerve
 Testis
 Nerve
 ganglion
 Intestine
 Pseudocoelom
 Excretory tube
 Anus
 Ventral
 Pharynx nerve

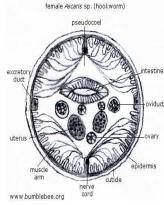
Discomption (motility)

- Pseudocoelem is a _____ body cavity that acts as a hydrostatic skeleton
 - enabling the nematode to _____ due to the pressure of the fluid filled cavity acting against the _____
 contracting below it

8 <u>Reproduction</u>

- Nematodes reproduce _____
 - Male _____ Female organisms
 - Some are hermaphroditic
- Fertilization occurs in the female organism
 - Fertilized eggs can _____ in the nematode or outside the nematode





DEcological Role

- Found in soil, water, and inside other organisms
- Functions:

•

- _____ the soil
 - _____ dead organisms
- population check/balance (parasites)

Human Disorders

- Trichinosis adults live and mate in host intestines
 - Larvae move through bloodstream then burrow into organs and tissue (very painful)
 - Larvae inactive until host is eaten by another animal
- Elephantiasis live in blood and lymph vessels
 - Transmitted from host to host by mosquitos
 - Severe infections lymph vessels blocked by large amounts of worms; causes extreme swelling of body parts