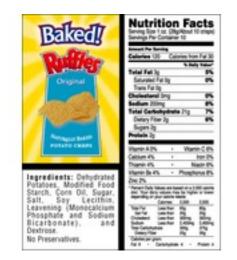
Open Ended Question







How many calories in 20 chips? What is the main ingredient in this product? How many calories from fat are in one serving?





Anthony Slusher



DIGESTIVE SYSTEM HEALTH nearpoo





Take care of YOUR BODY, it's the only place YOU HAVE TO LIVE Anthony James Slusher

Elementary and Middle School Health Educator

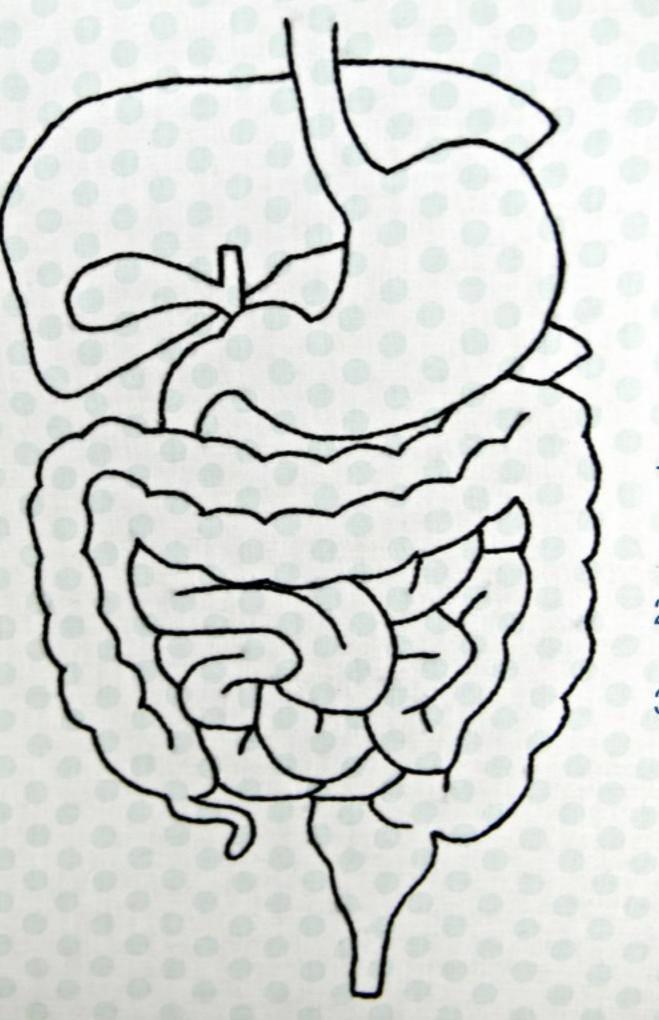
Hi there! I'm Anthony, an Elementary and Middle School Health Educator with a craze for motivating our youth on the importance of living a healthy and active lifestyle. In my highly enthusiastic classroom, we engage in the skills, knowledge and understanding it takes to create and sustain lifelong physical, mental and emotional health. I take pride in being a Healthy Role Model for my students and hope to inspire them to do the same :) Healthy people = Happy people. Who doesn't want to be happy?

Hobbies: Yoga, Sports, Nature, Hiking, Camping, Biking, Reading, Being Grateful. Qualities: Energetic, Motivated, Passionate.

Presentation: The Digestive System

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Lesson Objectives Students will:

- I. Discover the parts of the digestive system.
- 2. Explore where the food travels.
- 3. Understand how the body turns food into energy.

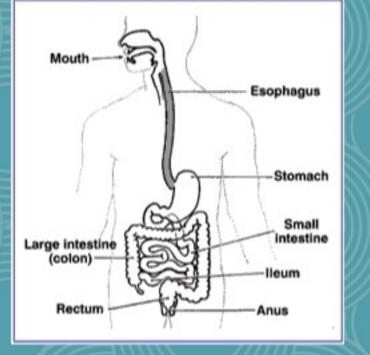
Classroom Time: 35 min



Weird Facts

Why do we burp?





Weird Facts

When you eat and drink you can swallow a bit of air. The air we breathe contains gases, like nitrogen and oxygen. The extra gas is forced out of the **stomach**, up through the **esophagus** and out of the **mouth** as a burp.



In your lifetime, the digestive system (mouth, esophagus, stomach, intestines, pancreas, liver) will handle over **50 tons** of food and liquid!

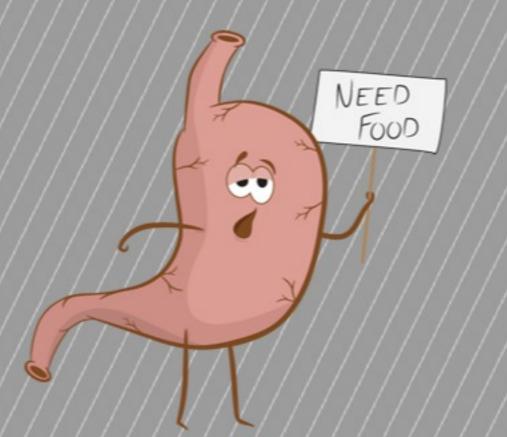


50 tons= 6 elephants



The Stomach

Think of the stomach as a bag of muscles that is shaped like a "J".



Like a bag, only so much can fit inside of it (about 2.5 pints of food).





The Stomach

The stomach produces gastric juices that help to further breakdown foods.

Stomach acid is so strong that it can burn a hole in your carpet.

Muscles turn the food into a liquid called "**chyme**".

Food spends up to 4 hours here.

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Small Intestine

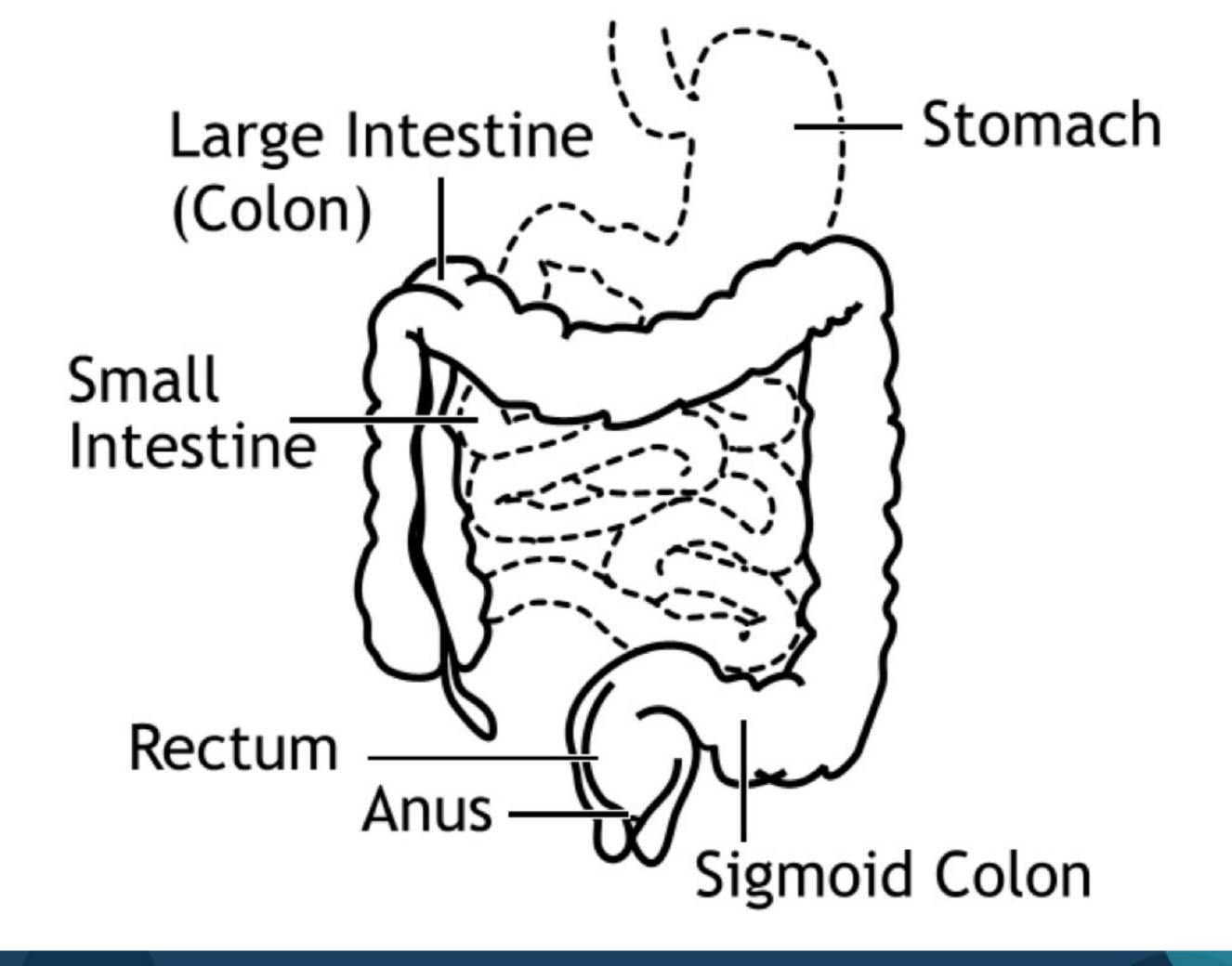
Most of digestion occurs here.

It is 15-20 feet long!

Muscles create waves called **peristalsis** to push chyme along the windy road.



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Open Ended Question





Why are the peristalsis so important?





The helping organs

The **liver** produces **bile** that helps break down fats in the small intestines.

The **pancreas** produces enzymes to help break food down even further.

Bile and enzymes travel in **ducts** (tiny tubes) in order to make it to the small intestines.

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The liver and pancreas send more gastric juices into the small intestines to break down food.

Food is then broken into small nutrients (carbohydrates, proteins, fats, vitamins, minerals).



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The most important stage of digestion is **absorption**.

Villi are tiny finger-like structures that line the inner wall of small intestines. They absorb nutrients (good stuff our body needs).





Nutrients are then sent to the blood to give us energy and keep us alive!



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Food enters through your **mouth.**

It passes through the esophagus,

then arrives at your stomach.

Muscles turn the food into a liquid.

In the **small intestine**, the pancreas and the liver help to break down food.

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Nutrients are absorbed!



Open Ended Question





Summarize digestion in the small intestine using these words: Chyme, Liver (Bile), Pancreas (Enzymes), Absorption (Villi)





By now all proteins, carbohydrates, minerals and vitamins are gone, absorbed by the villi to help our body stay healthy and strong.

The carbohydrates give the body energy.



Vitamin A is headed to the eyes. Calcium and Vitamin D go to the bones. Water leaves.

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learpod



Large Intestine

Some water and parts of the food that can't be used come to the large intestine.

Water is absorbed and the waste becomes more solid (feces, or poop).

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Feces stays here until we go to the bathroom!



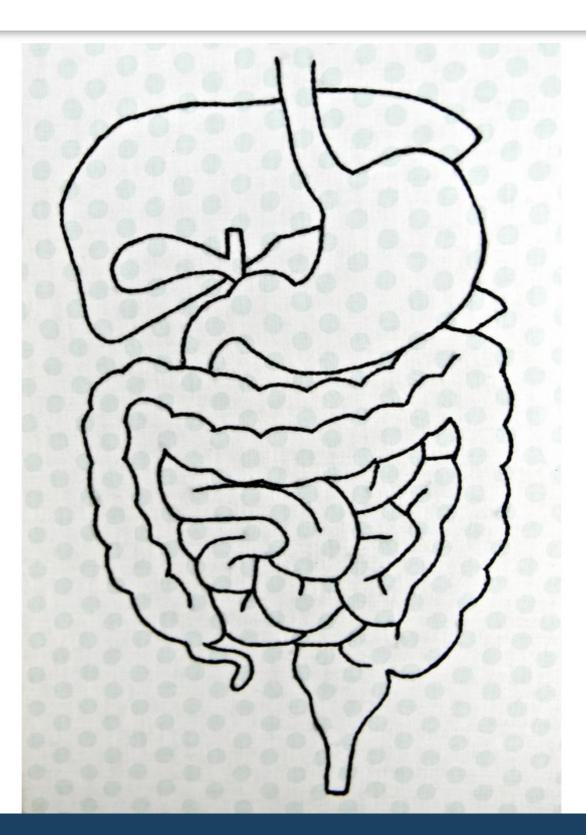
Draw It

Presentation: The Digestive System

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Label the following terms: Large Intestine (colon), small intestine, stomach, anus







What is feces made of?

It is made of mostly water that wasn't absorbed, dead intestinal cells, and fiber from food that wasn't digested, along with bacteria (that's why it smells).



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Open Ended Question

Presentation: The Digestive System

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Summarize digestion in the large intestine (colon).





How to keep the Digestive System healthy

- Drink 8-10 glasses of water per day.
- Physical Activity speeds up digestion.
- Limit fats. They are harder to digest.
- Eat more fiber! (fruits, veggies, whole gains)
- Take your time chewing.

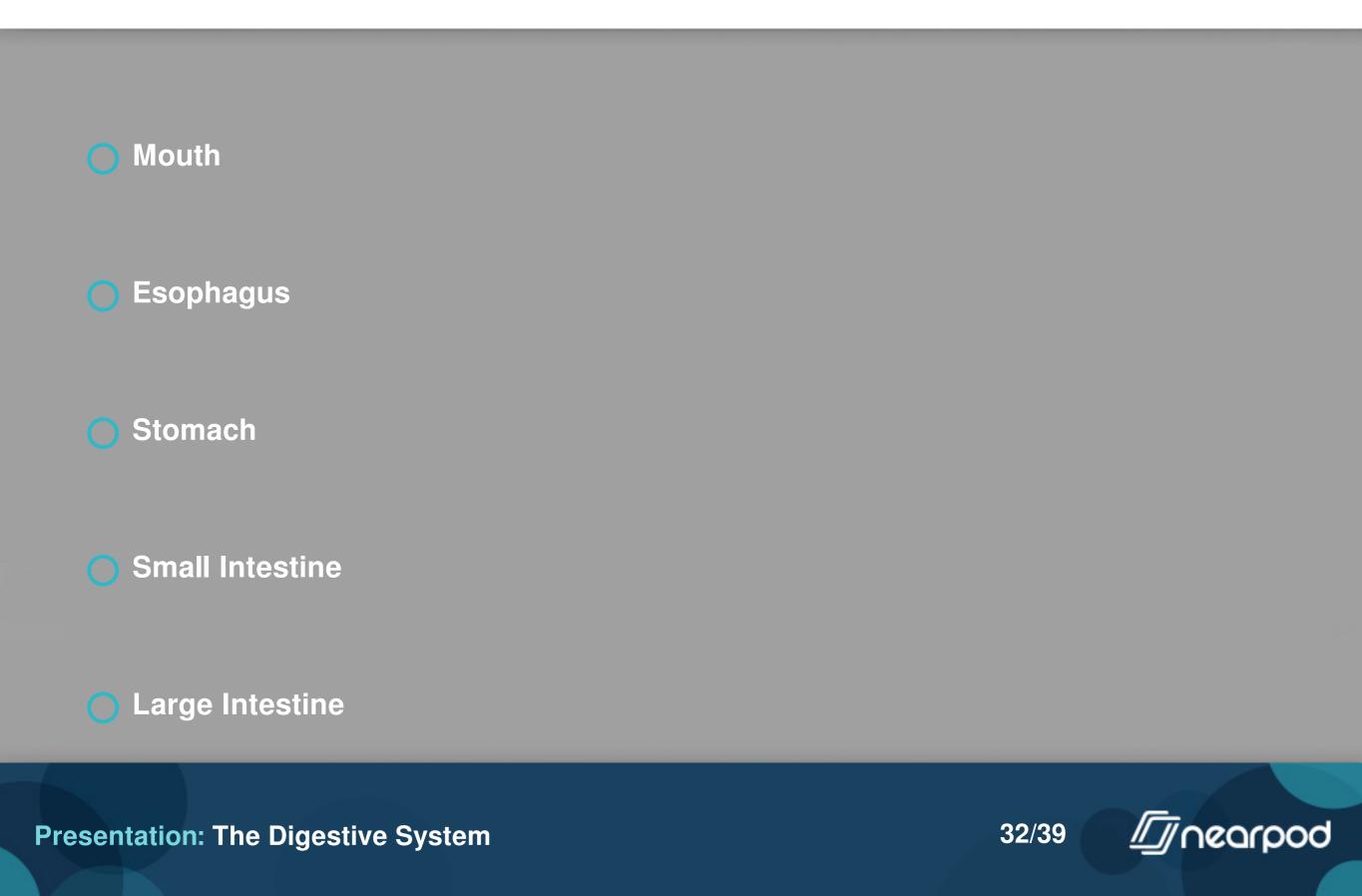








In which part of your body does most of digestion occur and where food is broken into small nutrients?



Villi are tiny finger-like structures that line the inner wall of small intestines.

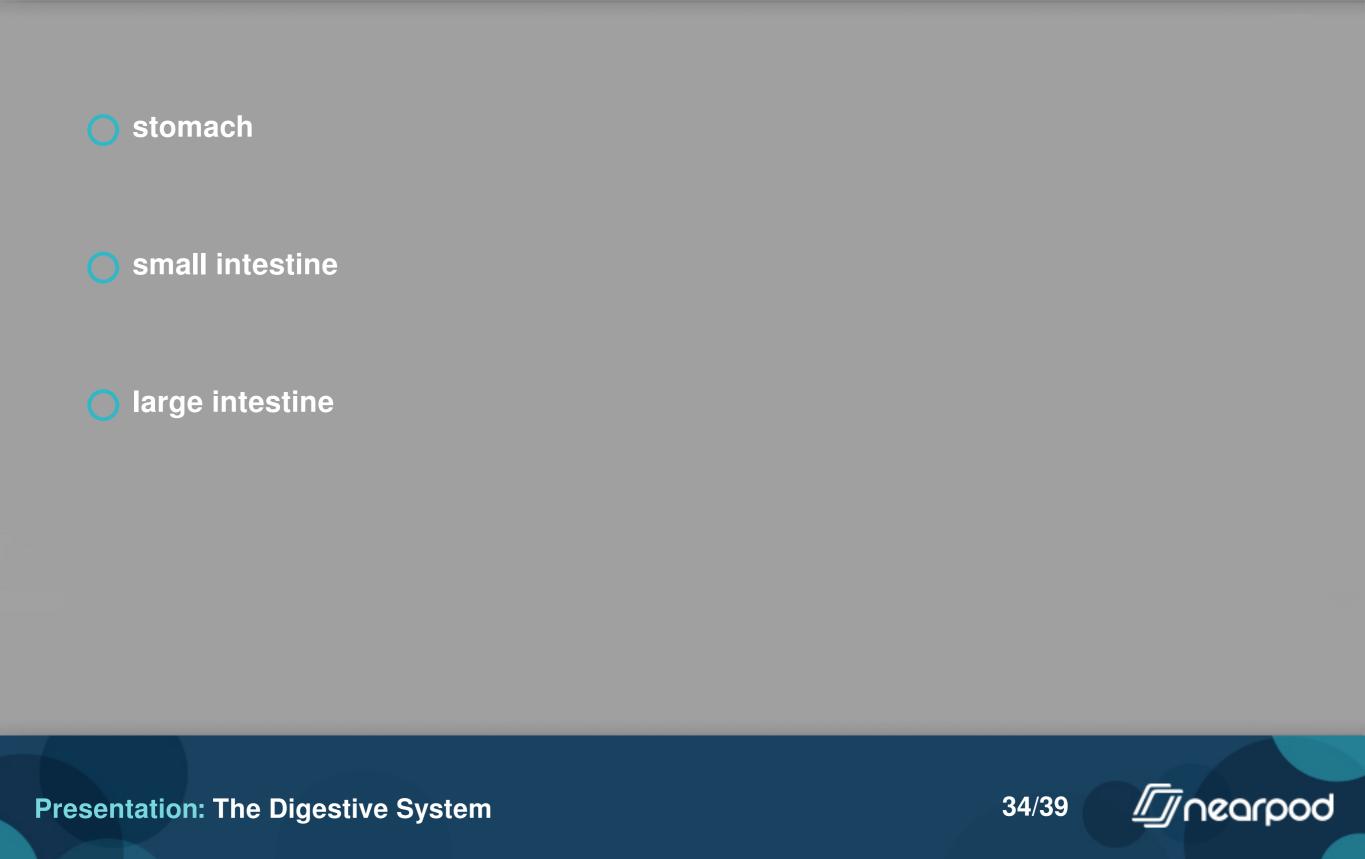
O True

False





In which part of the digestive system do muscles turn food into a liquid called "chyme"?



In which part of the digestive system is feces formed?



🔵 small intestine







Open Ended Question

Presentation: The Digestive System

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List at least three tips for keeping your digestive system healthy.







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Credits

"Elephants" by YoTut- https://www.flickr.com/photos/yotut/303094778/

Hey Paul Studios - "Large Digestive System Diagram. Framed Wall Hanging. Hand Embroidery." https://www.flickr.com/photos/hey_paul/8356043668

Alexis Danielle WIlliams- "Are you Hungry"- http://www.personal.psu.edu/afr3/blogs/sic hungry_stomach.png

Mubarak Fahad- "Swim Time"- https://www.flickr.com/photos/mfahad/

clipartpanda.com

http://upload.wikimedia.org/wikipedia/commons/d/d8/Intestine.png

http://upload.wikimedia.org/wikipedia/commons/7/7d/Digestivetract.gif

Presentation: The Digestive System

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