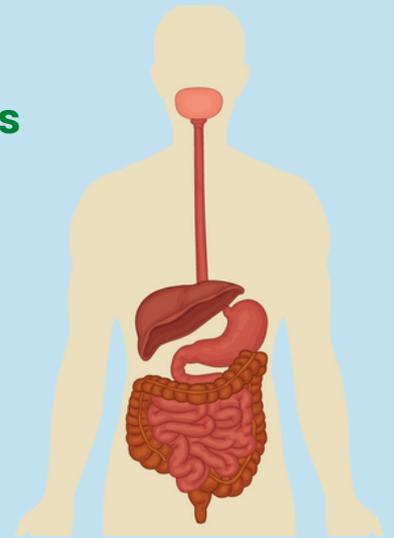


DIGESTIVE SYSTEM

How do the different organs in the digestive system work together?

What is the digestive system?

- The digestive system is **made up of organs that are important for digesting food to obtain energy.**
- The digestive system **breaks down food into simpler substances before it can be absorbed into the blood and carried to different parts of the body.**



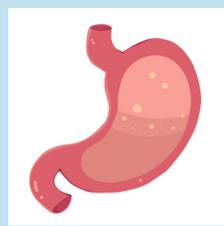
Organs of the digestive system



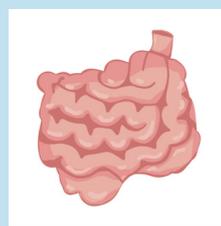
Mouth



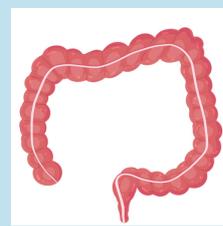
Gullet



Stomach



Small Intestine



Large Intestine



Anus

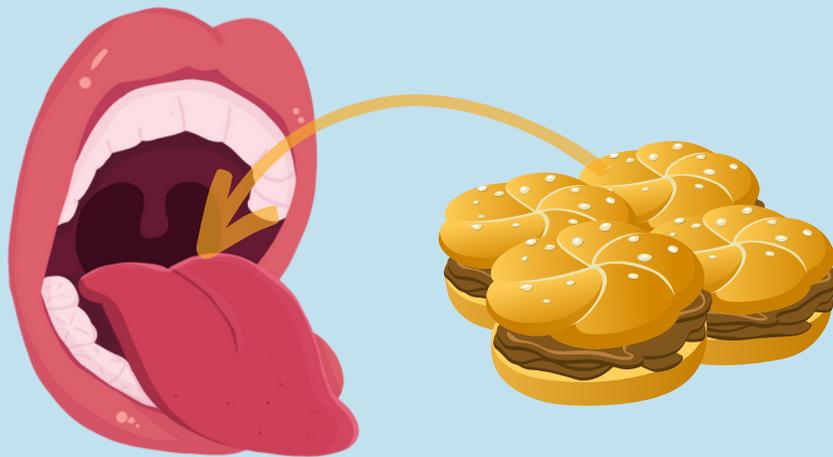
What is an organ?

- An organ is a structure composed of a **group of different tissues that work together to perform a specific function.**

How do the organs in the digestive system work together?

1. Mouth

- The digestion begins in the mouth.



- When we eat food, the teeth chew food into smaller pieces.
- Glands in the cheeks and under the tongue produce **saliva** that coats the food, making it easier to be chewed and swallowed.

Enzymes

- Enzymes play an important role in breaking down our food. **They help speed up metabolism, or the chemical reactions in our bodies.**
- Saliva also contains enzymes, which is why it makes it easier to digest our food.

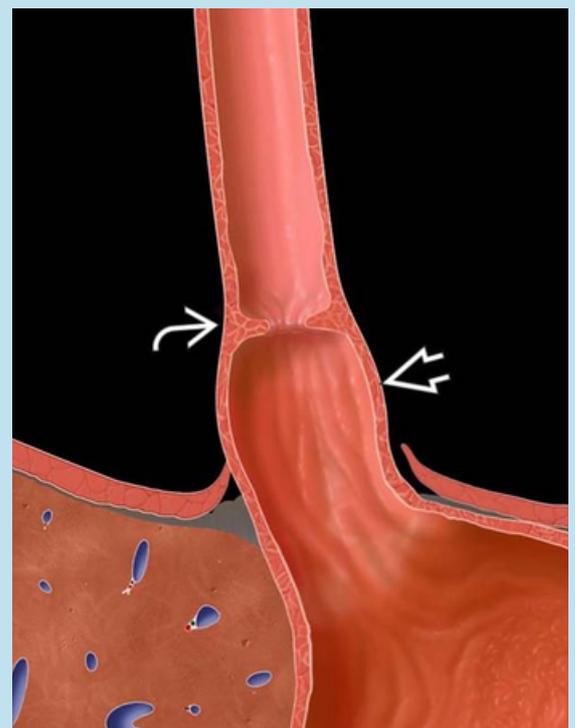
2. Gullet

- The soft chewed food in our mouth is then rolled into small balls and swallowed down the gullet.



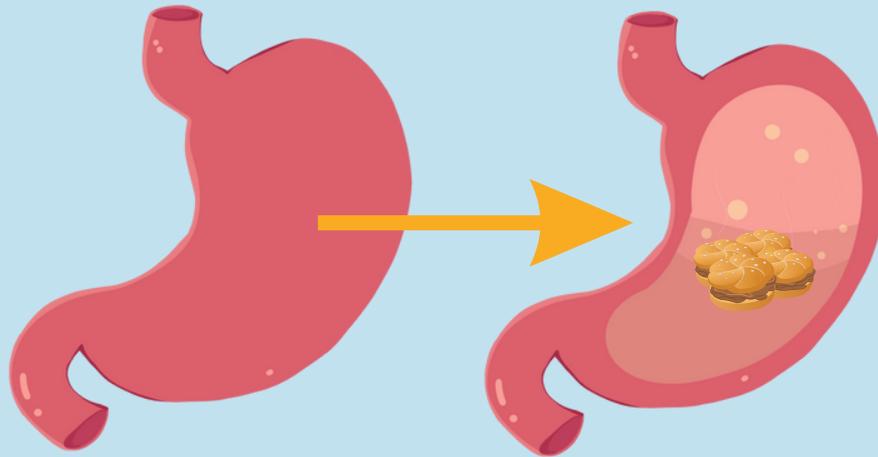
- The gullet is a muscular tube that carries food from the mouth to the stomach after it is swallowed.

- At the area where your gullet meets your stomach is a ring of muscle called the lower esophageal sphincter (LES).
- This **muscle relaxes (opens) to allow food to enter your stomach**
- It also **contracts (tightens to close) to prevent stomach content from backing up** into your gullet.



3. Stomach

- The small balls of food is now pushed down by the muscles of the gullet into the stomach



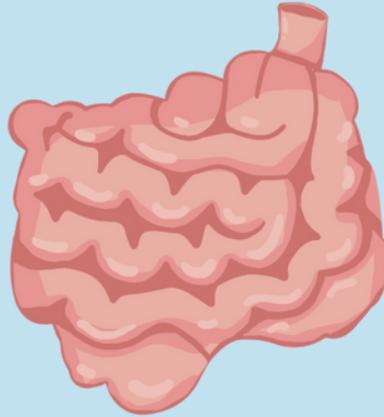
- The **stomach is a muscular bag that produces certain digestive juices.**
- It **acts like a mixer**, churning and mixing small balls of food with digestive juice to form a thick, soupy liquid substance.
- The stomach also helps kill bacteria that might have been in the food.

Digestive Juice

- Like saliva, digestive juice in our stomach also contains enzymes that help speed up the process of metabolism.

4. Small Intestine

- **The thick, soupy liquid substance food in the stomach will be pushed down slowly out towards the inside of the small intestine.**



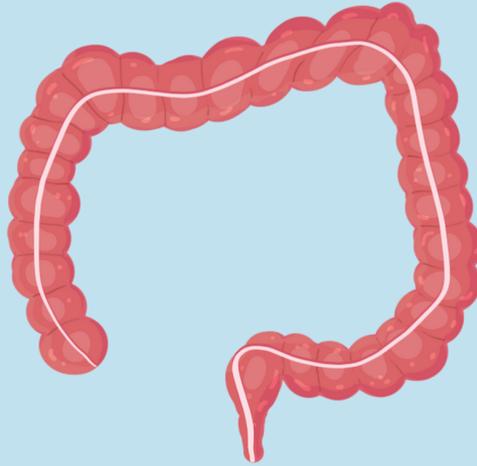
- The **small intestine completes the digestion of food.**
- The small intestine is a long tube that produces digestive juices, in which the food is further broken down into simpler substances.
- **Not all food can be broken down. Some food will remain undigested.**

What happens to the digested food?

- The digested food and other nutrients will pass through the walls of the small intestine and enter the blood. The blood then carries them to all parts of the body.

5. Large Intestine

- All the undigested food is moved into the large intestine



- In the large intestine, water and minerals are absorbed from the undigested food. They pass through the walls of the large intestine and enter the blood
- The remaining undigested food forms the waste materials.

Waste Materials

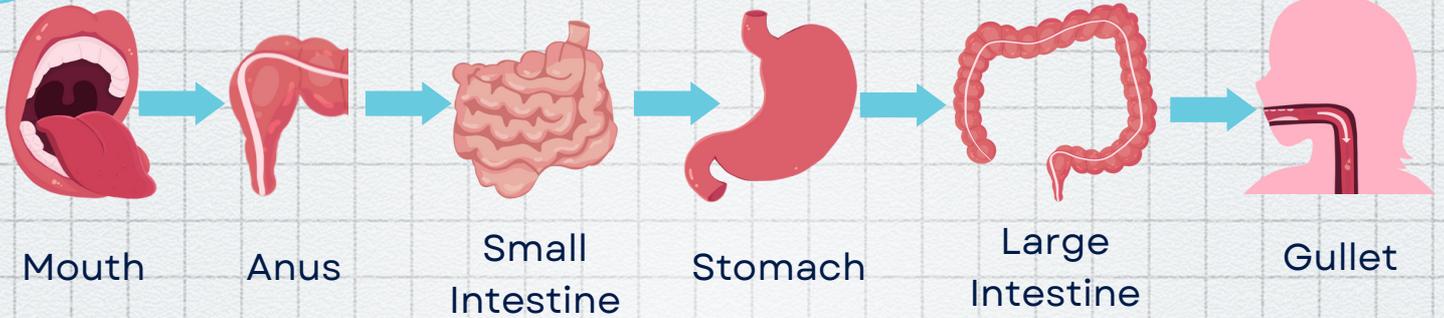


- The waste materials are removed from the body through an opening called the anus.

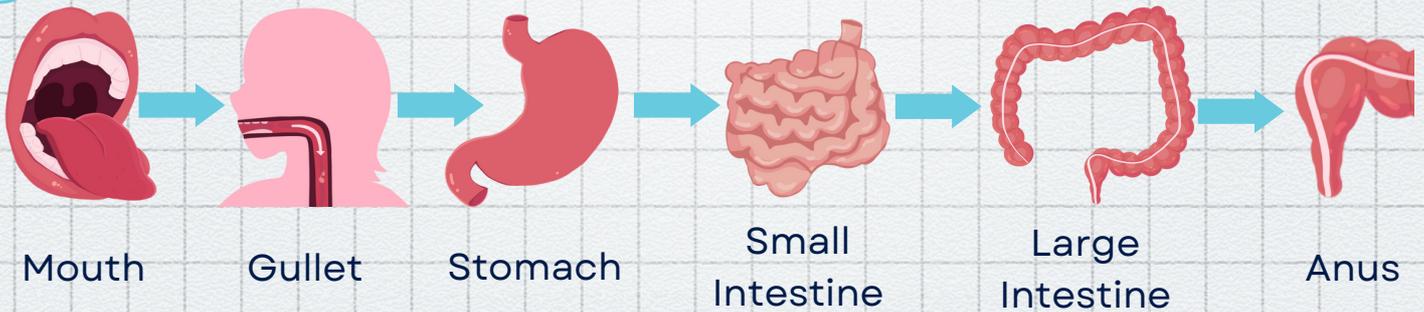
Exercise 1

Can you identify which number shows the correct sequence of the digestive system?

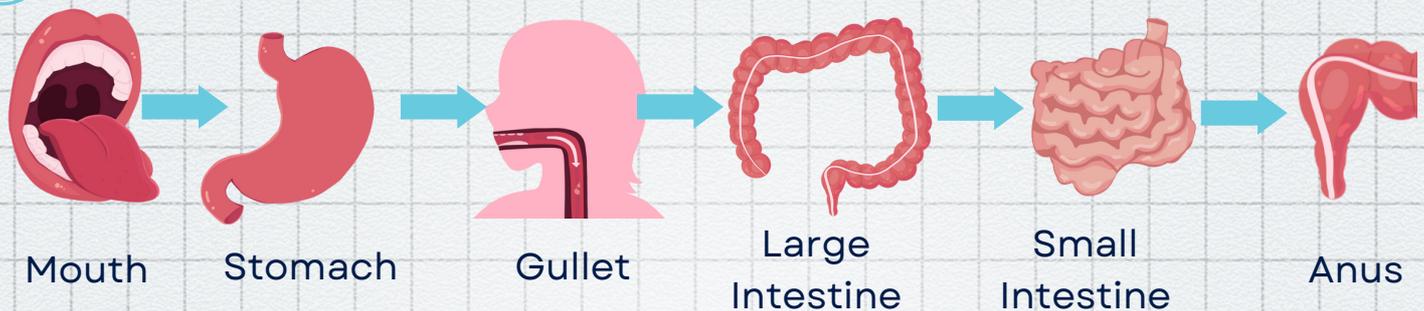
1



2



3



?



Exercise 2

Can you identify which organ removes the waste materials from the body?



Mouth



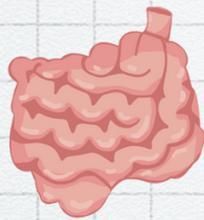
Gullet



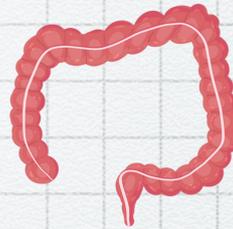
Anus



Stomach

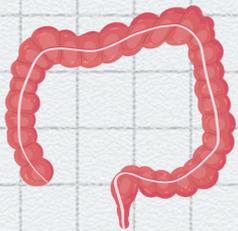


Small Intestine



Large Intestine

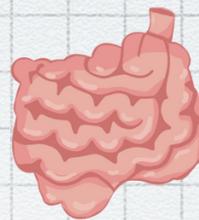
Can you identify which organ helps us to chew the food we eat?



Large Intestine



Stomach



Small Intestine



Gullet



Anus



Mouth



Can you identify which organ absorbs water and minerals from undigested food?



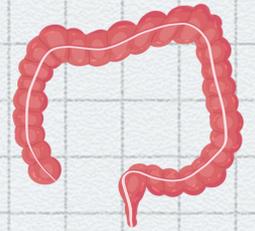
Gullet



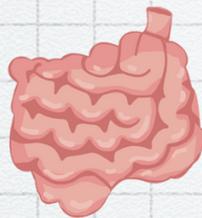
Mouth



Anus



Large Intestine



Small Intestine



Stomach

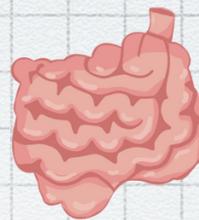
Can you identify which organ acts like a mixer?



Large Intestine



Anus



Small Intestine



Gullet



Stomach



Mouth



Can you identify which organ carries food from the mouth to the stomach after it is swallowed?



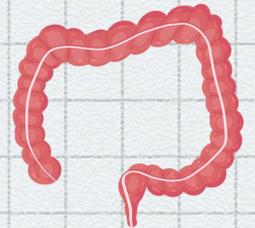
Gullet



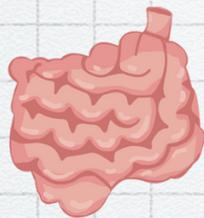
Mouth



Anus



Large Intestine

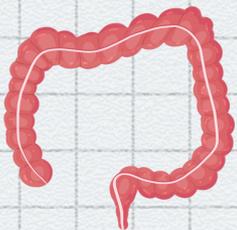


Small Intestine



Stomach

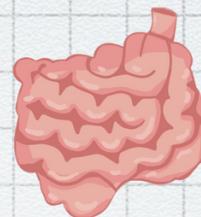
Can you identify which organ completes the digestion of food?



Large Intestine



Anus



Small Intestine



Gullet



Stomach



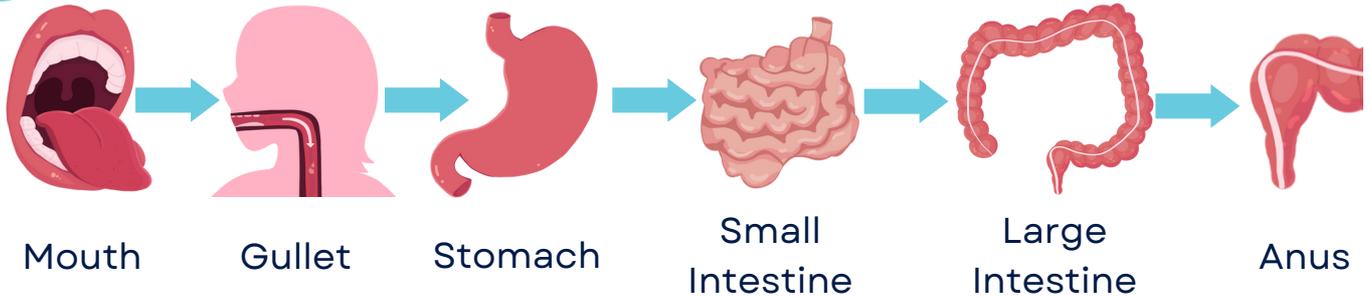
Mouth



Correct Answers

Exercise 1

2



Exercise 2

Anus

Responsible for absorbing water and minerals from the undigested food



Mouth

Responsible for chewing the food we eat

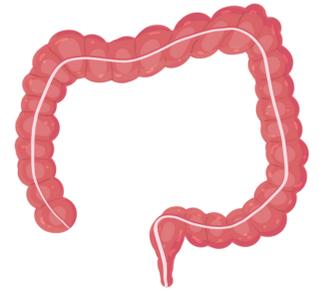


Correct Answers

Exercise 2

Large Intestine

Responsible for absorbing water and minerals from the undigested food



Stomach

Acts like a mixer



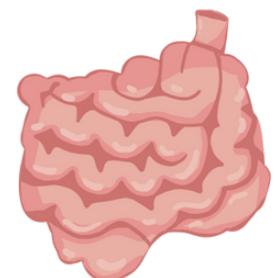
Gullet

Responsible for carrying food from the mouth to the stomach after it is swallowed



Small Intestine

Responsible for completing the digestion of food



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