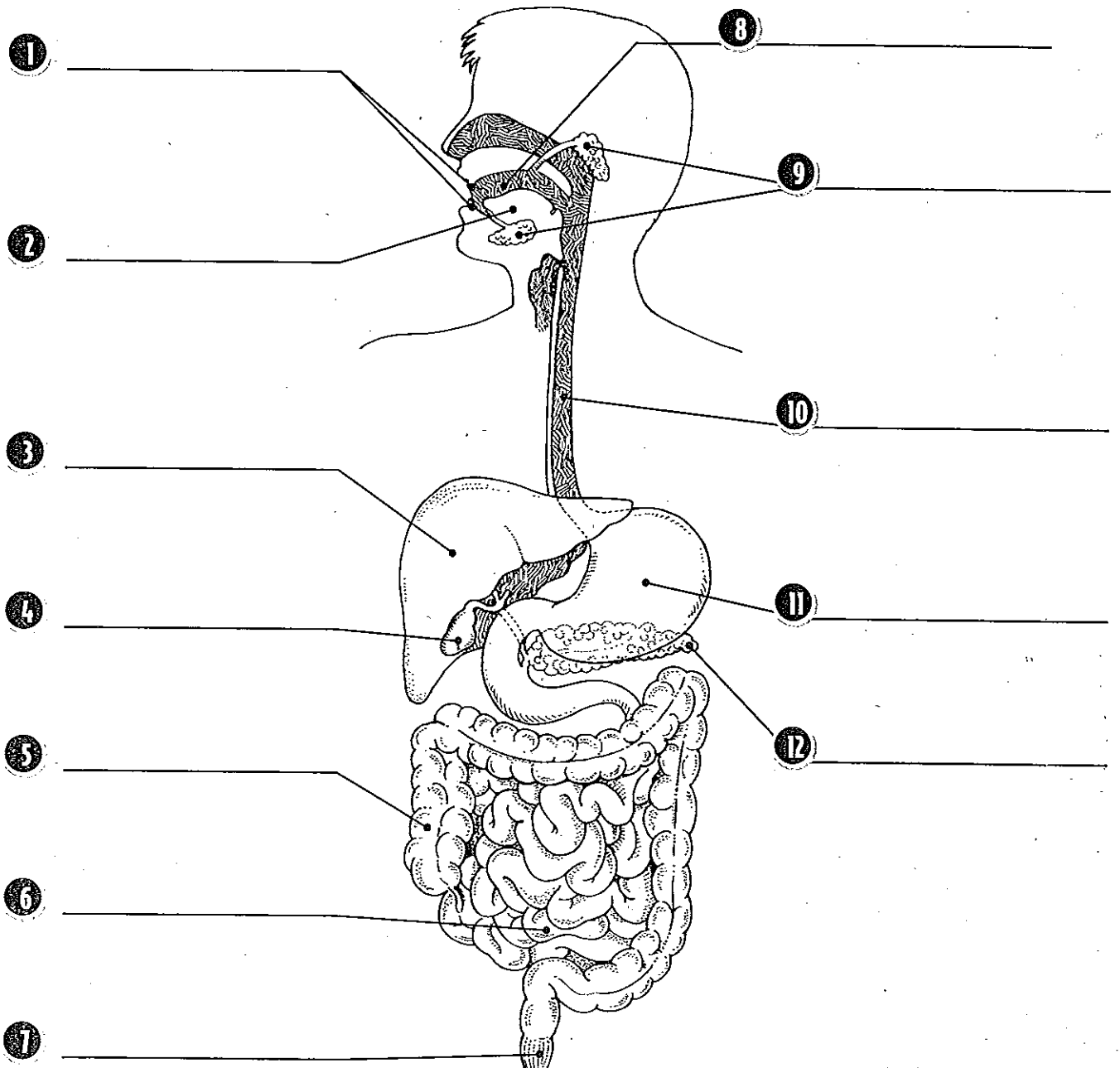


The Digestive System

The purpose of the digestive system is to break down, or digest, the food we eat. This system is made up of a series of connected organs and tubes. Use the terms in the word box to label the diagram.

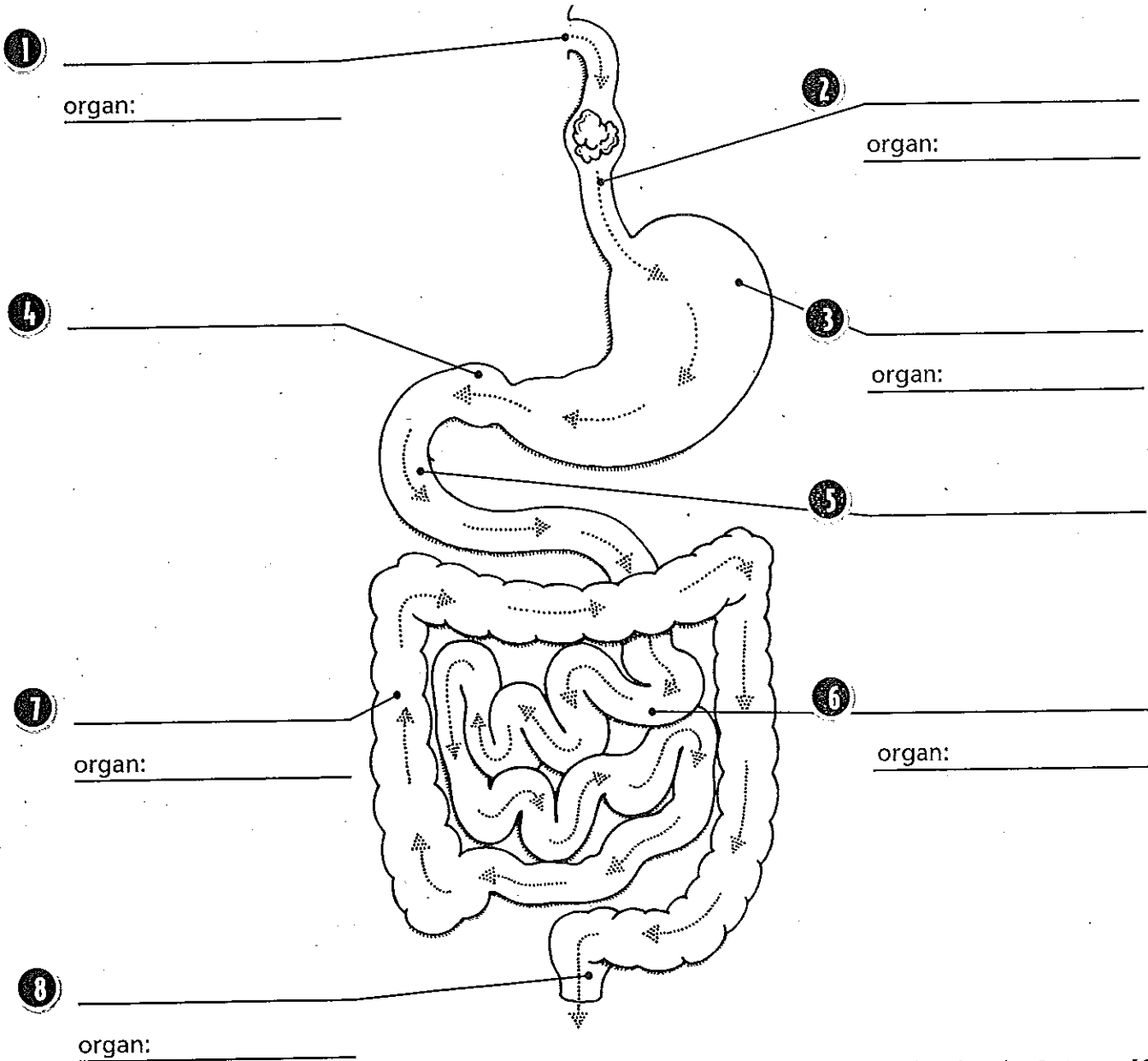
- | | | | |
|-------------|---------|-----------------|-----------------|
| pancreas | liver | mouth | anus |
| teeth | stomach | esophagus | salivary glands |
| gallbladder | colon | small intestine | tongue |



The Alimentary Canal

The main part of the digestive system is the alimentary canal. This is a tube that begins with the mouth at one end and ends with the anus at the other end. Use the text in the word box to label the diagram.

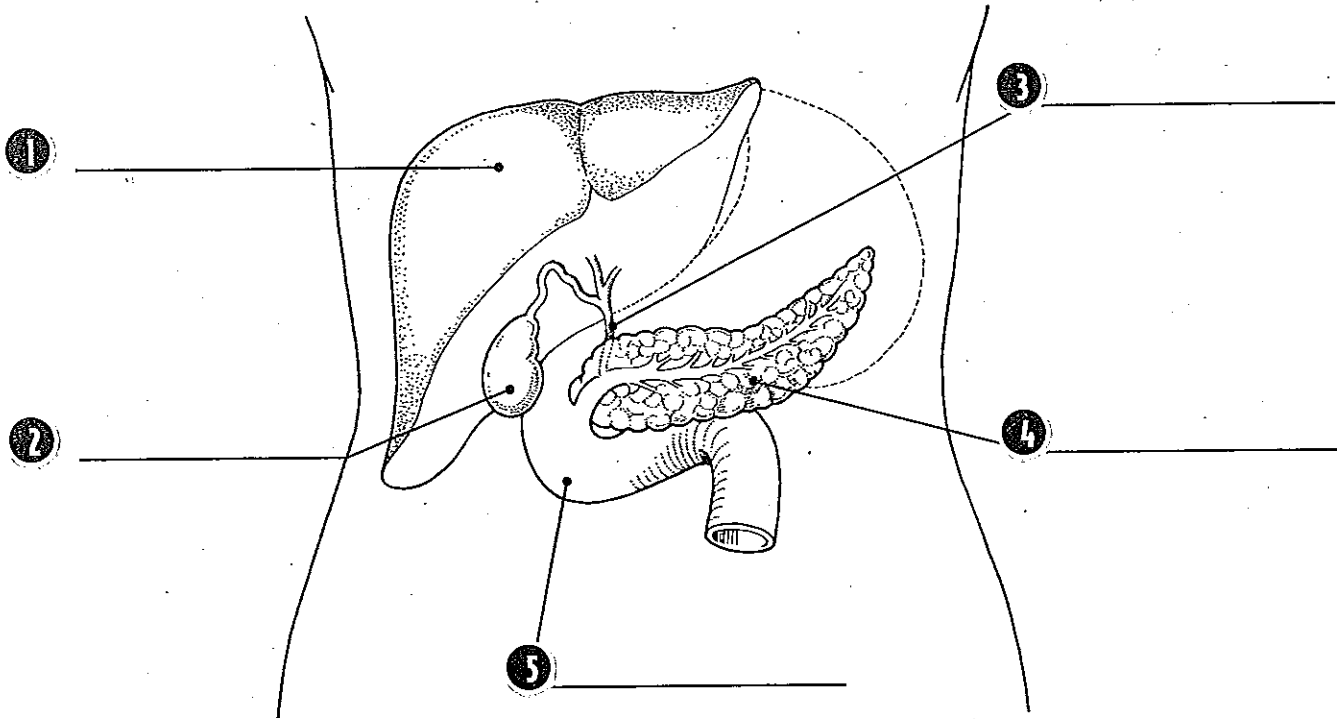
anus	mouth	small intestine
large intestine	esophagus	stomach
food enters		water passes into the bloodstream
solid waste exits		pancreatic enzymes enter
bile enters		nutrients absorbed into bloodstream
squeezes food down to stomach		holds food while digesting



Digestion Helpers

In addition to the alimentary canal, there are other organs that help with the digestive process. Each produces fluids that help break down foods. Use the terms in the word box to label the diagram.

liver bile duct pancreas duodenum gallbladder



Each "digestion helper" produces a fluid with a particular function. Match each term in the word box below with its description.

gallbladder pancreatic juice Brunner's glands bile enzymes

- 6 _____ The liver produces this fluid, which helps break down fats.
- 7 _____ When food is not traveling through the gut, bile is stored in this organ for later use.
- 8 _____ This fluid contains enzymes that break down sugars and starches into simple sugars, fats into fatty acids and glycerol, and proteins into amino acids.
- 9 _____ This organ secretes mucus to protect the stomach lining so it is not digested by all of these enzymes.
- 10 _____ These substances help start the reactions that break down food into parts that can be absorbed by the body.

Digesting What You Have Learned

To review the digestive system, match each term in the word box to its description.

small intestine anus esophagus pancreas liver
stomach colon duodenum tongue salivary glands

- 1 _____ This flexible organ of the mouth helps push food toward the teeth and aids in swallowing.
- 2 _____ This organ produces bile for the digestion of fat.
- 3 _____ This is a muscular tube that squeezes food down to the stomach.
- 4 _____ This long organ removes water and stores solid waste until it is eliminated.
- 5 _____ Final digestion takes place in this long tube.
- 6 _____ This is the first portion of the small intestine. Food enters it after it leaves the stomach.
- 7 _____ These produce a fluid that enters the mouth and moistens the food, beginning the digestion of some starches.
- 8 _____ This is the opening at the end of the alimentary canal through which solid waste leaves the body.
- 9 _____ This organ stores the food for 3 to 4 hours while digestion is occurring.
- 10 _____ This organ secretes enzymes that help digest fats, sugars and starches, and proteins.