You have learned how food is digested. You know that digestion is completed in the small intestine. But, digested food has no value unless it gets into your cells.

How does digested food leave the digestive system? It is absorbed in the small intestine. Absorption [ab-SAWRP-shun] is the movement of food from the digestive system to the blood.

This is how it happens:

The inner wall of the small intestine is lined with thousands of tiny "bumps." These bumps are called villi [VIL-y]. (One bump is called a villus.)

Each villus has two kinds of tubes:

- 1. a network of capillaries, and
- 2. a lacteal.

As you know, capillaries carry blood. The lacteals carry a liquid called lymph.

Digested food surrounds each villus. The food leaves the small intestine through the capillaries and lacteals.

- The lacteals absorb digested fats.
- The capillaries absorb all other nutrients.

Lymph and blood flow through the body in separate tubes. But the two liquids do not stay separated. Lymph empties into the bloodstream near the heart. Then, the blood carries all the nutrients.

As you know, blood goes to every part of the body. The cells absorb the nutrients from the blood.

## Study Figures A and B.

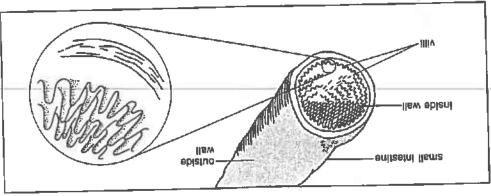


Figure A The inner wall of the small intestine has thousands of tiny villi.

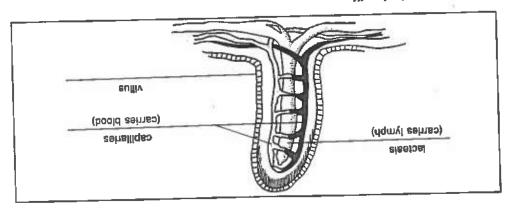


Figure B A single villus.

- I. Digested fats are absorbed by the capillaries, lacteals
- 2. Digested starches, sugars, and proteins are absorbed by the
- 3. Digested food is carried to all parts of the body by the

## **MATCHING**

Match each term in Column A with its description in Column B. Write the correct letter in the space provided.

lacteal Liquid	(p	anvarida.	12.	
design and page to design and design	to.	capillaries	V	
absorb all digested food except fats	(5	əniləəlni llama	Έ	
changes food to a form the body can- use	(q	ydwkj	5,	
illiv ditw bənil	9)	digestion	τ	
Column B		Column A		

## FILL IN THE BLANK

mouth

lacteal

Complete each statement using a term or terms from the list below. Write your answers in the spaces provided. Some words may be used more than once.

cells

small intestine

fats

nutrients

	all digested nutrients absorption	digestion villi	capillaries			
1.	Our bodies are made up of trilli	ons of				
2.	All the useful things we get from food are called					
3.	The break down of food into sin	npler and smaller mole	cules is called			
4.	Digestion starts in the	and is comp	leted in the			
5.	The movement of food from the	digestive system to the	e blood is called			
6.	Absorption of food takes place t	hrough tiny "bumps" o	called			
7.	Villi line the inner wall of the _					
8.	Every villus has	and a				
9.	Lacteals absorb digested					
10.	Capillaries in villi absorb	exce	pt fats.			
RE	ACHING OUT	*				
1.	Which covers more surface area,	a flat surface or a bum	py surface?			
2.	How does the shape of the villi	speed absorption?				

