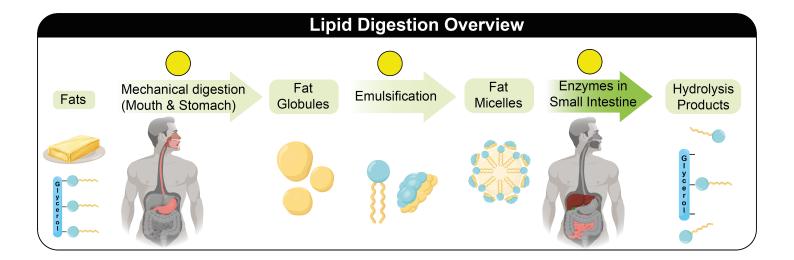
CONCEPT: INTRO TO LIPID DIGESTION

 Triacylglycerols (TAGs) are the most abundant dietary lipids and a source of energy. 		
	□ Mechanically digested in the mouth and stomach.	$\hfill\Box$ Biochemically digested in the small intestine.
(A) G	A Grinding in the mouth and churning in the stomach convert lipids into small droplets ().	
B E	Emulsification by bile turns globules into and i	ncreases their surface area and
C P	Pancreatic Lipases partially hydrolyze fats (triacylglycerols) to monoacylglycerols and fatty acids.	



EXAMPLE: Which of the following statements is correct about the role of bile in lipid digestion?

- a) Bile contains bile acids that provide an acidic medium for lipid digestion.
- b) Bile enzymes make lipids hydrophilic by oxidation.
- c) Bile salts and lecithin in the bile emulsify lipids as a preparation for their subsequent hydrolysis.
- d) Bile contains lipases that hydrolyze lipids to fatty acids and glycerol.

PRACTICE: Which of the following statements is incorrect about lipid digestion?

- a) Emulsification of fat globules by bile increases their surface area.
- b) Triacylglycerols are partially hydrolyzed in the stomach before they enter the small intestine.
- c) Triacylglycerols in the small intestine are partially hydrolyzed by pancreatic lipases.
- d) Mechanical digestion of lipids takes place inside the mouth and the stomach.