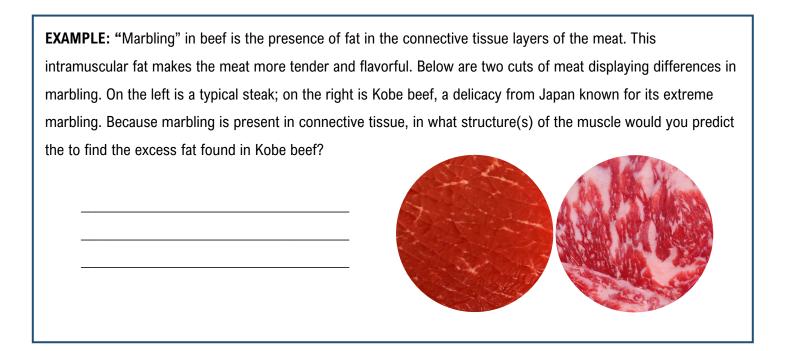
Organization of Muscle Tissue



PRACTICE: What layer of connective tissue surrounds and separates muscle fibers?	
a) Epimysium.	c) Endomysium.
b) Perimysium.	d) Fascicle.

PRACTICE: A fascicle is a bundle of:

a) Epimysium. c) Myofilaments.

b) Muscle Fibers. d) Muscles.

The Muscle Fiber

For a muscle fiber to contract, the tissue must ______.

Sarco____: plasma membrane wrapping myo_____.

■ T-Tubules: membrane _____ that reach deep myofibrils.

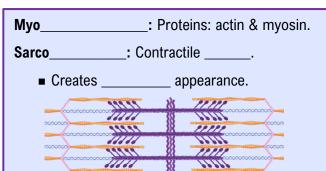
Myo_____: long, rod-shaped organelles.

■ Contain myo_____

Sarco Reticulum:

Endoplasmic reticulum of muscle cells.

- Surrounds myofibrils.
- Store/release Ca⁺² ions.



EXAMPLE: Arrange the following from superficial to deep by placing the correct letter in each blank.

a) Myofilaments b) Epimysium c) Perimysium d) Endomysium e) Sarcolemma

PRACTICE: The plasma membrane of a muscle fiber is called the _____ and it wraps bundles of

a) Sarcolemma: myofibrils.

b) Sarcoplasmic reticulum: myofilaments.

c) Sarcomere: myofilaments.

d) Sarcoplasmic reticulum: myofibrils.

PRACTICE: True or False: if false, chose the answer that corrects the statement.

The smallest contractile unit of a muscle is the muscle cell.

- a) True.
- b) False, the smallest contractile unit is the fascicle.
- c) False, the smallest contractile unit is the myofibril.
- d) False, the smallest contractile unit is the sarcomere.