## The Muscular System: Skeletal Muscle Tissue

1. Fill in the characteristics of the three muscle types:

Muscle Type	Cardiac	Skeletal	Smooth
Shape of cell			
# of nuclei			
Striations			
Control			

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The whole muscle is compo	sed of muscle cells (fibers) grouped in bundles called
Name the connective tissue	coverings surrounding the following:
Whole muscle	
Fascicles	
Muscle cell	
Match the following three to	erms with their definitions:
Sarcolemma	- endoplasmic reticulum in muscle cell
Sarcoplasmic reticulum	- intracellular fluid around organelles
Cytosol	- plasma membrane of muscle cell
Match the following three to	erms with their definitions:
Γerminal cisternae	- T-tubule + 2 terminal cisternae
Γ-tubules	- part of sarcolemma—carries action potential
Гriad	- part of sarcoplasmic reticulum—stores calcium ions
Myofibrils consist of contra	ctile proteins called
Name the two types and wh	at they're composed of:
	d of

8.	Arrangement of myofilaments. Give the letter name of each band:
	Dark band $\rightarrow$ band
	Light band $\rightarrow$ band
	Match two definitions with each band:
	- contains only thin filaments
	- contains both thick and thin filaments
	- defined by length of thick filament
	- defined as distance between two thick filaments
9.	Define the following terms:
	Z line (disc)
	H zone
10.	What happens to these areas during contraction?
	Z line (disc)
	H zone
11.	Define these two terms:
	M line
	Sarcomere
12.	Organization of muscle. Put the following components in order, from smallest to largest:
	fascicle muscle
	myofibril myofilament
	muscle muscle fiber (cell)