

Genetics

Brainpop—Growth

Name:

Period:

Watch the Brainpop on growth, then answer the questions below. You can also look up key terms in your textbook if you are getting stuck.

- _____ 1. Which of the following statements is true?
- An adult has larger cells in its body than a baby does
 - An adult has more cells in its body than a baby does
 - An adult has fewer cells in its body than a baby does
 - An adult has smaller cells in its body than a baby does
- _____ 2. A dwarf is a person who does not grow to the same size as an average adult. What can you infer about dwarves?
- Their bodies do not produce hormones
 - They rarely go through puberty
 - They often have fewer hormones in their bloodstream than average people
 - Their bodies are usually incapable of cell division
- _____ 3. Which person is undergoing the fastest rate of growth?
- a 6-month-old boy
 - a 9-year-old girl
 - an 18-year-old boy
 - a 25-year-old woman
- _____ 4. In the movie, Tim says that people's proportions change as they grow. What does this mean?
- People become bigger and heavier as they get older
 - Certain body parts become larger or smaller compared to the sizes of other body parts
 - Certain body parts shrink as people get older
 - The human body does not grow at a consistent rate
- _____ 5. What do people's bones do as they grow?
- | | |
|-------------|-----------|
| a. condense | c. soften |
| b. elongate | d. swell |
- _____ 6. How does growth before puberty differ from growth after puberty?
- after puberty, growth occurs at a faster rate
 - after puberty, bones stop growing from their shafts, and begin growing from their ends
 - after puberty, hormones disappear from the bloodstream
 - after puberty, growth is mainly mental and emotional, not physical
- _____ 7. Which term best describes cartilage?
- | | |
|-----------|------------|
| a. rigid | c. robust |
| b. liquid | d. pliable |
- _____ 8. In the movie, Tim says people's bones ossify as they grow. Which of the following is an example of ossification?
- a tree growing taller year after year
 - a very old piece of wood hardening into petrified wood (rock)
 - a hard piece of chewing gum becoming rubbery when you put it in your mouth
 - the bones in a baby's skull fusing together as it ages
- _____ 9. In the movie, Tim says that your genetic makeup contributes to how fast and how big you grow. What does this mean?
- Your growth is partly determined by factors you inherit from your parents
 - Your growth is determined by how big you are at birth
 - Your growth can be stunted by childhood diseases
 - You can't grow bigger or taller than your parents
- _____ 10. Who is most likely to experience growing pains?
- a 6-month-old boy
 - a 13-year-old girl
 - an 18-year-old boy
 - a 25-year-old woman