

## Cherokee in the United States

By ReadWorks

A very long time ago, before the United States even existed, the land was already home to a wide variety of different American Indian tribes. You may have also heard people belonging to these tribes called “Indian” and “Native American.” While some people may think of American Indians as one group of people who are all similar to one other, there are actually big differences among the American Indian ethnic groups and the tribes formed within them. Each of the different ethnic groups has a unique culture and language, and each tribe has its own system of government. Each tribe also has a unique history of interaction with early European settlers and the United States.

One example of an American Indian ethnic group is the Cherokee. Within this group, the Cherokee people formed tribes, or communities whose members shared a language, customs, and beliefs. Currently, there are three “federally recognized” Cherokee tribes in the United States, which means they get special programs and services from the government, and also have certain legal rights. In addition to these three recognized tribes, there are more than 200 other groups who identify themselves as Cherokee tribes.

The Cherokee originally lived in what we now know as the Southeastern United States. This includes modern-day Georgia, North Carolina, South Carolina, and Tennessee. They lived by farming, hunting, and gathering on the land. In the 1700s, they first started to interact with the Europeans. The Cherokee traded deerskins with the Europeans, and the two groups generally had a good relationship with each other. However, as more European settlers began to move onto land the Cherokee needed for hunting or gathering, the Europeans and the Cherokee came into conflict. This led to many battles, and the Cherokee lost a lot of land to the Europeans. After the American Revolution, the Cherokee lost even more of their land as the Americans began to build new settlements in Cherokee territory.

Over the next few decades, the Cherokee people started to change. As they spent more time with the Americans, they started to adopt some parts of American culture and technology. For example, Cherokee tribes used to grow their food on communal farms. This means that the entire tribe shared the same land, farming it together and sharing the crops among themselves. The Americans encouraged them to switch to growing their food on individual farmsteads. This practice is similar to what we think of as farming

today. Each farmer owns a piece of land, and grows his or her own crops on it. They also raised pigs and cattle on the land instead of hunting deer. The new United States government also gave the Cherokee spinning wheels and taught them how to spin cotton. In the 1800s, the Cherokee even began to adopt some of the structures of the United States government for their own society. They even had their own Constitution!

However, as the United States grew, the government wanted more land for new settlers. This led to the government and army pushing Cherokee off their land. At first, some of the Cherokee voluntarily relocated, but a lot of them were forced to move even though they didn't want to. In the 1830s, in a famous event known as the Trail of Tears, the United States Army forced the Cherokee to march to Oklahoma. More than 4,000 Cherokee died during this march.

Today, most Cherokee live in Oklahoma, North Carolina, or on the West Coast. In the decades following the Trail of Tears and forced removal of the Cherokee, the United States government has worked hard to improve its relationship with the Cherokee and other American Indian groups. The government passed laws to let some tribes maintain their own governments and govern themselves legally within the United States. The Cherokee Nation is the largest federally recognized Cherokee tribe, and it has more than 300,000 members today.

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. When did the Cherokee people first start to interact with Europeans?
  - A the 1500s
  - B the 1600s
  - C the 1700s
  - D the 1800s
  
2. What does this passage describe?
  - A This passage describes the different tribes of American Indians, including the Cherokee.
  - B This passage describes the historical background of the Cherokee in the United States.
  - C This passage describes the different places that the Cherokee have lived.
  - D This passage describes how the Cherokee farm their land.
  
3. The Cherokee were not always treated fairly by the United States government. What evidence from the passage supports this statement?
  - A "The Americans encouraged [the Cherokee] to switch to growing their food on individual farmsteads."
  - B "In the 1800s, the Cherokee even began to adopt some of the structures of the United States government for their own society."
  - C "[A]s the United States grew, the government . . . and army push[ed] the Cherokee off their land."
  - D "The Cherokee Nation is the largest federally recognized Cherokee tribe, and it has more than 300,000 members today."
  
4. What has been the main reason for conflict between the Cherokee and the United States?
  - A The Cherokee adopted some parts of American culture and technology.
  - B Americans farmed differently than the Cherokee.
  - C The Cherokee live in tribes, while most people in the United States do not.
  - D The United States wanted the land on which the Cherokee lived.
  
5. What is the main idea of this text?
  - A After interacting with Americans, Cherokee farmers began raising their own crops, pigs, and cattle.
  - B The governments of Cherokee tribes are very different from the government of the United States of America.
  - C The Cherokee's relationship with the United States government has changed with their interactions.
  - D Since the Trail of Tears, the United States has worked hard to improve its relationship with the Cherokee.

6. Read these sentences from the text.

"[The Cherokee] lived by farming, hunting, and gathering on the land. In the 1700s, they first started to interact with the Europeans. The Cherokee traded deerskins with the Europeans, and the two groups generally had a good relationship with each other."

Based on these sentences, what does the word "interact" mean?

- A to come into contact
- B to teach skills
- C to compete
- D to dislike

7. Choose the answer that best completes the sentence.

\_\_\_\_\_, the Cherokee had a good relationship with early European settlers.

- A Obviously
- B Finally
- C Instead
- D Initially

8. What was the Trail of Tears?

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**9.** How has the United States tried to improve its relationship with the Cherokee?

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**10.** How has the relationship between the Cherokee and the United States changed over time? Support your answer with evidence from the text.

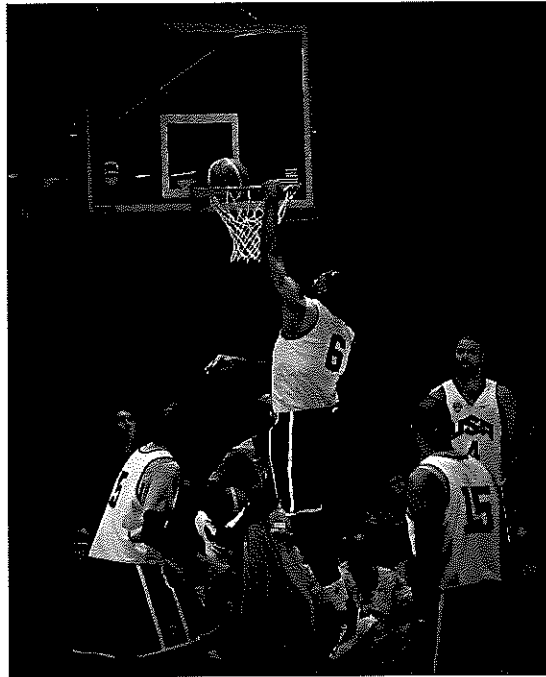
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## Sir Isaac Newton and LeBron James



The English physicist and mathematician Sir Isaac Newton discovered three basic laws of motion. The First Law says that objects at rest and objects in motion will remain at rest or in motion, unless they are acted upon by an “unbalanced force.” The Second Law says that when a force acts on a mass, acceleration is produced. The greater an object’s mass is, the more force is needed to accelerate it.

Newton’s laws of motion have become known throughout the world, including his Third Law of Motion. It reads: “For every action, there is an equal and opposite reaction.” A simpler way of saying this might be: “When you push an object, it pushes back.” For every force, in other words, there is a reaction force equal in size.

There are many ways to describe how the Third Law of Motion works in the world of sports. One of the more interesting examples is the way that LeBron James dunks a basketball.

In order for LeBron James to score a slam-dunk, he must exert a certain amount of force against the surface of the basketball court. LeBron James is a big man. He is 6 feet, 8 inches tall. He weighs 245 pounds. When he is standing upright, with his arms raised above his head, his reach extends to 8 feet and 10  $\frac{1}{4}$  inches.

The rim of the basketball hoop is exactly 10 feet high. For LeBron James to slam the ball, he must propel himself high enough that he can force the basketball, which is approximately 9.39 inches in diameter, into the hoop. This requires that he reach well above the height of the rim, which he does fairly often. In photographs and slow-motion replays of LeBron James dunking the basketball, his elbow is often equal to the height of the rim!

LeBron James may be tall, strong, and fast. He may be extremely mobile and flexible. But it is no easy feat to dunk a basketball, especially when you weigh 245 pounds. His vertical leap—that is, the maximum height he can reach when he jumps—is around 44 inches. The average vertical leap in the National Basketball Association, or NBA, is about 27 inches. That means that LeBron James, despite his large size, can jump more than 10 inches higher than most players in the NBA! This is a serious benefit in basketball, a game of inches in which how high someone can jump often means the difference between scoring and missing the shot.

Why can LeBron James jump higher than other basketball players? The answer has to do with Newton's Third Law of Motion. When LeBron James jumps, he is driving force into the court. That force is created by the energy stored inside his muscles. And how high he jumps depends not just on how much energy he forces into the surface of the court, but also on how well he does it.

When LeBron James jumps, he pushes down on the surface of the court. This is the "action" that Newton mentions in his Third Law. The "reaction" comes when the floor pushes back using an equal amount of force.

It may seem strange to think of the floor exerting force on an object, especially a basketball player. But this concept is what Sir Isaac Newton understood way back in 1687, when he published his most famous book, *Mathematical Principles of Natural Philosophy*.

Newton would have been fascinated by LeBron James's jumping ability. But he would also have understood that it is not simply the strength of James's legs that enables him to jump so high. The stability of his body, located in his core and his torso, also contributes to the energy that he forces into the surface of court. The energy and strength of LeBron James's *entire body* is what enables him to reach such fantastic heights.

Watching LeBron James dunk on television often causes people to think he is defying the force of gravity, which pulls us and other objects to the ground. In reality, no one can defy such force. LeBron James just happens to be so strong and agile that, when he jumps into the air, he *appears* to be defying the force of gravity. He seems almost capable of flying.

Naturally, smaller basketball players require less force to dunk a basketball. Since they are lighter, they don't have to combat the same gravitational pull. On the other hand, the fact that they are lighter means they do not have as much mass to store energy. The more muscles you have, the more energy you can force into the ground, and the higher you can go.

This is why professional basketball players appear to have no fat on their bodies at all. Fat does not store energy as effectively as muscle, but it still contributes to one's body weight. Fat on a basketball player is equal to wearing lead weights around their hips during a game. Obviously, this would hinder a player's performance, especially his ability to dunk.

Physicists have spent time thinking about the physics of dunking. To remain in the air for one second, they say, one would have to have a vertical leap of 4 feet, which is higher than pretty much any basketball player of all time. One exception is Michael Jordan, who is believed to have the highest vertical leap—48 inches, or 4 feet—of any professional basketball player. Michael Jordan was just 6 feet, 6 inches tall—average for an NBA player—but his vertical leap placed his head about 6 inches above the rim.

That one of the best basketball players in history also has the highest vertical leap is no coincidence. Michael Jordan's body was strong, stable, and proportioned in such a way that the force he pushed onto the ground placed him above the rest. He was one of the best overall athletes in the game, and his slam-dunking ability was an indication of his prowess.

From basketball players like LeBron James to Michael Jordan, it may seem like they are bending the rules of physics and gravity when they dunk a basketball. On the contrary, they are able to perform crowd-rousing slam-dunks because of these rules.



Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. What is Sir Isaac Newton's Third Law of Motion?

- A Objects at rest and objects in motion will remain at rest or in motion, unless they are acted upon by an unbalanced force.
- B For every action there is an equal and opposite reaction.
- C When a force acts on a mass, acceleration is produced.
- D When a force acts on a mass, the mass increases.

2. What does the author describe in the passage?

- A Sir Isaac Newton's most famous book, *Mathematical Principles of Natural Philosophy*
- B how LeBron James developed his basketball dunking skills
- C how Sir Isaac Newton came up with the three basic laws of motion
- D how the way that LeBron James dunks a basketball illustrates Newton's Third Law of Motion

3. Read the following sentences from the passage: "When LeBron James jumps, he pushes down on the surface of the court. This is the 'action' that Newton mentions in his Third Law."

Based on this information, LeBron James jumping is an example of which part of Newton's Third Law?

- A both the action and the equal and opposite reaction
- B the equal and opposite reaction of an action
- C the action which causes an equal and opposite reaction
- D neither the action nor the equal and opposite reaction

4. The force created when the floor pushes LeBron James upwards is equal to which force?

- A the force LeBron James used to dunk the ball
- B the force LeBron James drives into the court when he jumps
- C the force LeBron James uses to throw the ball
- D the force LeBron James drives into the court when he lands after jumping

5. What is the main idea of this passage?

- A LeBron James and Michael Jordan are two of the best players in the history of professional basketball.
- B Basketball players must have high vertical leaps in order to dunk basketballs.
- C Newton's Third Law of Motion is related to the First and Second Laws of Motion.
- D Newton's Third Law of Motion can be examined using the examples of basketball players jumping.

6. Read the following paragraph from the passage:

"LeBron James is a big man. He is 6 feet, 8 inches tall. He weighs 245 pounds. When he is standing upright, with his arms raised above his head, his reach extends to 8 feet and 10¼ inches."

How can the tone of the author best be described in this paragraph?

- A humorous
- B angry
- C disinterested
- D factual

7. Choose the answer that best completes the sentence below.

\_\_\_\_\_ LeBron James has an impressive vertical leap of 44 inches, Michael Jordan holds the record with a vertical leap of 48 inches.

- A In contrast
- B For example
- C Although
- D Initially

8. According to the passage, in order for LeBron James to score a slam-dunk, what must he exert?

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9. When LeBron James jumps, he is driving force into the court. How is this force created?

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10. How does the example of LeBron James jumping to dunk a basketball illustrate Newton's Third Law of Motion? Use information from the passage to support your answer.

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Name: \_\_\_\_\_ Date: \_\_\_\_\_

## NTI 7th Grade Math - Day #1

## Question 1 of 10

The material needed to make a new dress costs \$6.95/yard. Susan needs  $2\frac{7}{8}$  yards and Michelle needs  $3\frac{7}{8}$  yards.

About how much will the girls spend on the material?

- A. \$49.00
- B. \$44.00
- C. \$42.43
- D. \$40.00

## Question 2 of 10

Mrs. Kays is going to buy each of her 3 children the following school supplies.

Item	Cost for 1
Backpack	\$18.88
Binder	\$6.24
Pack of pencils	\$2.87
Paper	\$2.18

About how much will she spend on all 3 children combined?

- A. \$30
- B. \$42
- C. \$84
- D. \$90

## Question 3 of 10

Ronald gets \$10 for the week as his allowance. The next week he gets another \$10. He decides to purchase a cd for \$8 and a pack of gum for \$1. His friend Karen borrows \$2 for a drink. How much money does Ronald have left?

- A. \$9.00
- B. \$10.00
- C. \$11.00
- D. \$12.00

## Question 4 of 10

A rancher counts the cows in a herd of cattle. In the year 2000 the number of cows was 245. The number of cows increased after the year 2000 at a rate of 18 a year. Which of the following represents how many cows were in the herd in 2006?

- A. 108
- B. 353
- C. 255
- D. 263

## Question 5 of 10

When Tom got up this morning the temperature was 10 degrees below zero. At midday the temperature was 2 degrees above zero. What was the change in temperature?

- A. The temperature dropped 12 degrees.
- B. The temperature dropped 8 degrees.
- C. The temperature increased 12 degrees.
- D. The temperature increased 8 degrees.

## Question 6 of 10

There are 1511 people coming to the banquet. How many tables will be needed for the banquet if seven people will be seated at a table?

- A.  $215\frac{6}{7}$
- B. 216
- C. 225.3
- D. 250

## Question 7 of 10

The times of the winners of the annual St. Jude race are listed below. Estimate the total time it took the top 5 runners.

17.38, 17.56, 18.04, 18.36, 18.42

- A. 18 minutes
- B. 75 minutes
- C. 90 minutes
- D. 125 minutes

## Question 8 of 10

The Tigers football team gained 7 yards on the first play, lost 10 yards on the second play, gained 5 yards on the third play, and lost 9 yards on the fourth play. What integer will represent the yardage gain or lost for the four plays?

- A. -7 yards
- B. 31 yards
- C. -17 yards
- D. 7 yards

## Question 9 of 10

The Math Club is taking a trip to the university to attend Engineering Day. There are 40 members and 2 sponsors going. If transportation will be in cars and each car will hold 5 people, how many cars will be needed to take the group?

- A. 8 cars
- B. 9 cars
- C. 10 cars
- D. 11 cars

## Question 10 of 10

Suzie has 64 cups of flour. She wants to bake as many loaves of bread that she can. Each loaf calls for  $2\frac{3}{4}$  cups of flour. About how many loaves can Suzie bake?

- A. 21 loaves
- B. 32 loaves
- C. 39 loaves
- D. 192 loaves

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