

Grade 4 Language
Cotton

Student Name: _____

Class: _____

Date: _____

Instructions: **Read each question carefully and circle the correct answer.**

1. Fill in the blank.

Cotton is a soft, fluffy, staple fiber that grows in a _____ around the seeds of a cotton plant.

- A. hull
- B. bale
- C. boll
- D. furrow

2. Fill in the blank.

A _____ is a bundle of tightly compressed cotton fiber ready for market.

- A. hull
- B. bale
- C. boll
- D. furrow

3. Fill in the blank.

The artificial application of water to land to assist growing crops is called _____.

- A. cooperation
- B. furrow
- C. spinning
- D. irrigation

4. Fill in the blank.

A furrow is a narrow _____ made in the ground, especially by a plow.

- A. groove
- B. irrigation
- C. yarn
- D. planter

5. Fill in the blank.

A gin quickly separates the seed from the cotton _____.

- A. meal
- B. dye
- C. fibers
- D. yarn

6. Fill in the blank.

The word, cotton, is an English version of the Arabic work 'qutun' meaning _____ fabric.

- A. calm
- B. colorful
- C. sewn
- D. fancy

7. Fill in the blank.

_____ are short fibers that cling to the seeds after the lint is removed.

- A. Liners
- B. Linters
- C. Lions
- D. Liars

8. Fill in the blank.

To _____ is to interlace yarn or strips to form fabric or materials.

- A. weave
- B. wear
- C. watch
- D. wonder

Grade 4 Writing
Cotton

Student Name: _____

Class: _____

Date: _____

Instructions: **Read the question carefully and write your answer below.**

Extended Response

Cotton is most often considered a fiber, which is used in clothing from blue jeans to t-shirts. Cottonseed oil is also used as a food product in items such as salad dressings and snack items. We also use cottonseed hulls for animal feed. In the late 1800s, potato blight killed most of the potatoes in Ireland, which led to the Irish potato famine. This caused a shift in the Irish population, as over 1 million people died from starvation, and another million people emigrated (fled) the country in search of a stable food source. Explain what would happen if a disease were to wipe out the U.S. cotton crop. Be sure to include what would happen to both food and fiber systems. What safeguards are in place to prevent this from happening?

Grade 4 Science
Cotton

Student Name: _____

Class: _____

Date: _____

Instructions: **Read each question carefully and circle the correct answer.**

1. Why do farmers plant in furrows?

- A. To warm the soil and direct water.
- B. To move water away from the seeds.
- C. To make sure the rows are straight.
- D. To allow tractor tires to maneuver safely.

2. Cotton plants grow to be about how tall?

- A. 3-6 inches
- B. 1-3 feet
- C. 2-5 feet
- D. 5-8 feet

3. Fill in the blank.

Cotton bolls open 50-70 days after blooming, letting air in to _____ the white, clean, cotton fiber.

- A. release
- B. reveal
- C. dry
- D. clean

4. Today, cotton is harvested by a mechanical cotton picker or brush stripper. These machines would resemble which of the following?

- A. tractors
- B. plows
- C. combines
- D. windmills

5. What happens at the cotton gin?
- A. Cotton is picked.
 - B. Cotton is compressed into modules.
 - C. The seeds are separated from the fiber.
 - D. Lint is pressed into bales.
6. This scientist studies climate change.
- A. agronomist
 - B. engineer
 - C. chemist
 - D. climatologist
7. This is a substance used to change the color of something.
- A. dye
 - B. diet
 - C. lint
 - D. gin
8. Which of the following is not a use for cotton?
- A. film
 - B. yarn
 - C. insulin
 - D. denim

Grade 4 Social Studies
Cotton

Student Name: _____

Class: _____

Date: _____

Instructions: **Read each question carefully and circle the correct answer.**

1. Which of the following cotton producing states is located farthest west?
 - A. Texas
 - B. Missouri
 - C. Florida
 - D. Louisiana

2. Which of the following cotton producing states is located farthest north?
 - A. Texas
 - B. Missouri
 - C. Florida
 - D. Louisiana

3. Denim jeans were created during which event?
 - A. Columbus Explorations
 - B. American Colonization
 - C. California Gold Rush
 - D. First Airplane Flight

4. The American Civil War occurred between 1861-1865. Which event happened before the Civil War?
 - A. Astronauts returned from the moon.
 - B. Cotton was used for smokeless gun powder.
 - C. Morse code was developed.
 - D. Arab merchants brought cloth to Europe.

5. Cotton was used to wrap mummies in Egypt. On which continent is Egypt located?

- A. Asia
- B. Africa
- C. Europe
- D. Antarctica

6. Fill in the blank.

The top cotton producing states extend from _____.

- A. the Atlantic Ocean to the Pacific Ocean
- B. Canada to Mexico
- C. the Mississippi River to the Atlantic Ocean
- D. the Rockies to the Pacific Ocean

7. The wings on the first airplane were covered in cotton. Who flew the first airplane?

- A. Orville Redenbacher
- B. The Wright Brothers
- C. The Righteous Brothers
- D. Neil Armstrong

8. When Columbus came to America, on which island chain did he discover cotton?

- A. The Hawaiian Islands
- B. The Aleutian Islands
- C. The Bahamian Islands
- D. The Philippine Islands

Grade 4 Math
Cotton

Student Name: _____

Class: _____

Date: _____

Instructions: **Read each question carefully and circle the correct answer.**

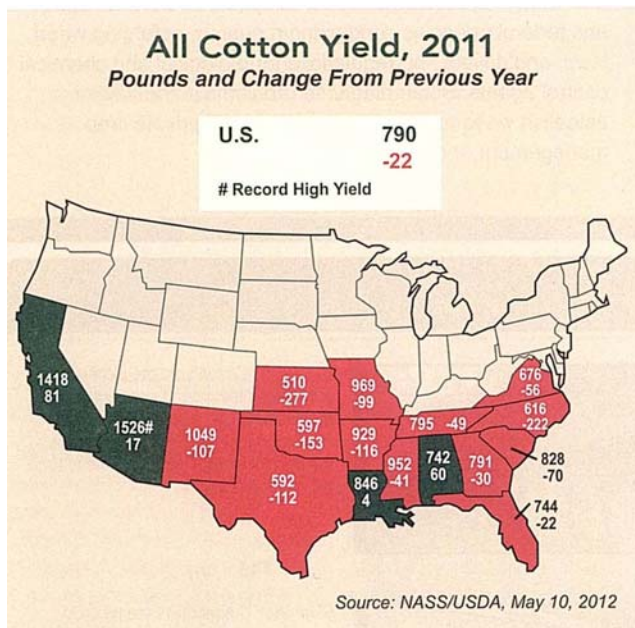
1. How many years passed between the invention of the cotton gin and the invention of the first light bulb with a cotton filament?
- A. 56 years
 - B. 68 years
 - C. 86 years
 - D. 1879 years

2. The average American owns 7 pairs of blue jeans. Use this information to answer questions 2-4.

Mr. Schultz's classroom is 'average.' There are 23 students in his classroom. How many pairs of blue jeans does his class own?

- A. 30
 - B. 160
 - C. 161
 - D. 171
3. Although Mr. Schultz's class is average, he also likes blue jeans. Mr. Schultz and 2 of the 23 students have 12 pairs of blue jeans each. What is the total number of jeans owned by Mr. Schultz's class?
- A. 36
 - B. 147
 - C. 173
 - D. 183

4. Due to a new fashion trend, the 11 girls, in Mr. Schultz's class of 23 students, only wear skirts. They each have 1 pair of jeans. The remaining boys each have 7 pairs of jeans. How many boys are in this class?
- A. 23
 B. 16
 C. 12
 D. 7
5. One bale of cotton weighs 480 pounds. How much do 2 bales of cotton weigh?
- A. 482 pounds
 B. 860 pounds
 C. 960 pounds
 D. 962 pounds
6. One bale of cotton weighs 480 pounds. Which estimate is closest to the weight of 3 bales of cotton?
- A. 483 pounds
 B. 500 pounds
 C. 1,000 pounds
 D. 1,500 pounds
7. Use the graph below to answer questions 7-8.



7. In 2011, 4 states (shown in green) had an increase in pounds of cotton produced. Which state had the highest percentage increase?
- A. Arizona
 - B. California
 - C. Louisiana
 - D. Mississippi
8. In 2011, 13 states (shown in red) had a decrease in pounds of cotton produced. Why did the states have a decrease?
- A. Drought
 - B. Insect Damage
 - C. Hurricane Ivan
 - D. Unable to tell from the graph.

Answer Key:

Language

1. C. boll
2. B. bale
3. D. irrigation
4. A. groove
5. C. fibers
6. D. fancy
7. B. Linters
8. A. weave

Science

1. A. To warm the soil and direct water.
2. C. 2-5 feet
3. C. dry
4. C. combines
5. C. The seeds are separated from the fiber.
6. D. climatologist
7. A. dye
8. C. insulin

Social Studies

1. A. Texas
2. B. Missouri
3. C. California Gold Rush
4. D. Arab merchants brought cloth to Europe.
5. B. Africa
6. A. the Atlantic Ocean to the Pacific Ocean
7. B. The Wright Brothers
8. C. The Bahamian Islands

Math

1. C. 86 years
2. C. 161
3. D. 183
4. C. 12
5. C. 960 pounds
6. D. 1,500 pounds
7. B. California
8. D. Unable to tell from the graph.