

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

**Instructions:** Read each question carefully and choose the best answer.

1. Which of the following sentences is an opinion about the brain?
  - Ⓐ The brain weighs 2 percent of a person's total body weight.
  - Ⓑ Neurons carry electrical signals needed for thoughts, memories, and feelings.
  - Ⓒ Your brain may be the most important part of your body.
  - Ⓓ Sleep is an important part of healthy brain function.
2. How are EEGs and fMRIs similar?
  - Ⓐ They both measure the size of the brain.
  - Ⓑ They both measure brain activity.
  - Ⓒ They both locate a brain injury.
  - Ⓓ They both stimulate the brain to function.
3. Read this sentence: *An fMRI is **noninvasive** and gives an indirect measurement of brain activity.* What does the word **noninvasive** mean?
  - Ⓐ an involuntary act that occurs automatically
  - Ⓑ the muscle movement controlled by the nervous system
  - Ⓒ a medical procedure done by cutting into a person's body
  - Ⓓ a medical procedure done without cutting or inserting anything into a body
4. Readers can use the diagram on page 9 to \_\_\_\_\_.
  - Ⓐ see the two hemispheres of the brain
  - Ⓑ understand the function of the brain stem
  - Ⓒ understand how an fMRI works
  - Ⓓ infer why Phineas Gage's personality changed

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5. What caused Phineas Gage's personality to change in 1848?
  - Ⓐ He damaged his temporal lobe in an accident.
  - Ⓑ His family died in a car accident.
  - Ⓒ He lost his job and struggled to make money.
  - Ⓓ Doctors studied his case.
6. Which of the following is a detail from the section "Three Brains in One"?
  - Ⓐ Puzzles and games help create new neural connections in the brain.
  - Ⓑ The cerebellum works to coordinate muscle movements.
  - Ⓒ Scientists study healthy brains to better understand brain function.
  - Ⓓ Dancing is good for your brain and helps form new neural connections.
7. Which of the following is not a way to keep your brain in top condition?
  - Ⓐ get mental exercise
  - Ⓑ get physical exercise
  - Ⓒ get plenty of sleep
  - Ⓓ eat plenty of sugar
8. Why does the author call the brain stem the *lizard brain*?
  - Ⓐ The brain stem does all the same things a lizard's brain stem does.
  - Ⓑ It is shaped like a lizard.
  - Ⓒ It is named after a scientist named Lizard.
  - Ⓓ It sometimes makes a person move like a lizard.
9. If you could look inside your head, you'd see that the cerebrum is divided into two halves, called \_\_\_\_\_.
  - Ⓐ lobes
  - Ⓑ hemispheres
  - Ⓒ neurons
  - Ⓓ electrodes

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- 10.** What is the author's purpose for the section "Maintain Your Brain"?
- Ⓐ to entertain the reader with a shocking story about Phineas Gage
  - Ⓑ to inform the reader about the three parts of the brain
  - Ⓒ to persuade the reader to take care of their brain
  - Ⓓ to inform the reader about the functions of the four brain lobes
- 11. Extended Response:** Explain in your own words what might happen if you damaged your brain stem.
- 12. Extended Response:** What do you think brain research will lead to for people with disabilities in the future? Explain.

## Quick Check Answer Sheet

## The Amazing Brain

*Main Comprehension Skill: Main Idea and Details*

1. Ⓒ *Fact or Opinion*
2. Ⓑ *Compare and Contrast*
3. Ⓓ *Vocabulary*
4. Ⓓ *Make Inferences / Draw Conclusions*
5. Ⓐ *Cause and Effect*
6. Ⓑ *Main Idea and Details*
7. Ⓓ *Main Idea and Details*
8. Ⓐ *Main Idea and Details*
9. Ⓑ *Vocabulary*
10. Ⓒ *Author's Purpose*
11. Answers will vary but should include information from page 5 of the text.
11. Answers will vary but should include information from the book to draw conclusions or make predictions.