**ANSWER DOCUMENT**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ period:\_\_\_\_\_\_\_\_\_\_\_\_

Sample AIR Test – Grade 7-

PART 1 - “The Hive Mind”

1. Read the sentence from paragraph 4.

“The waggle dance may not qualify as a language, but it is a sophisticated form of communication.”

Which word is a synonym for the word sophisticated?

1. advanced
2. mysterious
3. substitute
4. unspoken

2. Select **three** phrases in paragraph 2 that help the reader understand the meaning of the word collective.

        It has only about one million neurons, compared to the 90 billion neurons of the human brain. It’s only by working together as a colony that bees manage to pull off the impressive feats they are so well known for. A colony of bees is like one big brain, and the bees are like brain cells, explains animal behaviorist and bee expert Thomas Seeley. “Even though each unit (bee or neuron) has limited information and limited intelligence, the group as a whole makes first-rate collective decisions,” Seeley writes in a description of his research.

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Seeley writes in a description of his research.

3. How does the author distinguish her point of view from earlier beliefs about bees?

1. by praising the mental skills of individual bees
2. by indicating that further study of bees is needed
3. by suggesting that bees tell each other where to find food
4. by discounting the importance of colonies in the lives of bees

4. This question has two parts. First, answer Part A. Then, answer Part B.

***Part A***

What are **two** central ideas in the passage?

A)  It is hard to determine how bees’ brains work.

B)  Bees work together to complete difficult tasks.

C)  Bees can communicate using a simple language.

D)  Bees have been shown to communicate with other species.

E)  Individual bees are more intelligent than previously thought.

***Part B***

Select the **two** details that support the development of the central ideas in Part A.

A)  “They pollinate plants, helping to ensure that humans will have enough food to eat.” (paragraph 1)

B)  “It has a brain roughly the size of one of the sesame seeds on your hamburger bun.” (paragraph 1)

C)  “Bees only seem to be able to count up to four, though.” (paragraph 6)

D)  “Even more remarkably, bees can combine several things they’ve learned in one situation and call on that knowledge in new situations.” (paragraph 7)

E)  “It’s hard enough to study the minds of humans, who can actually tell you what they’re thinking.” (paragraph 9)

5. Based on information in the passage, how did Karl von Frisch contribute to a deeper understanding of the intelligence of bees?

1. He revealed that bees communicate with each other.
2. He discovered that bees can solve simple math problems.
3. He discovered that bees have difficulty locating sources of food.
4. He revealed that bees work together more than previously thought.

6. This question has two parts. First, answer Part A. Then, answer Part B.

***Part A***

Which conclusion about intelligence is supported by the passage?

1. Only mammals with large brains have intelligence.
2. Hard work and cooperation lead to increased intelligence.
3. Metacognition is the most important factor in intelligence.
4. The ability to solve problems is an indication of intelligence.

***Part B***

Select **two** sentences from the passage that support the answer in Part A.

1. “This meant that bees were actually counting the number of markers they passed, rather than simply memorizing the pattern of the markers.” (paragraph 6)
2. “Even more remarkably, bees can combine several things they’ve learned in one situation and call on that knowledge in new situations.” (paragraph 7)
3. “If they chose the spot below the black bar, they found a nasty-tasting bitter liquid”(paragraph 11)
4. “So experiments with bees are not that different from experiments with our favorite lab mammal, the rat.” (paragraph 13)
5. Only a few other animals, including humans, dolphins, rats, and some monkeys, are thought to have at least some level of metacognition.

***{Continue on to the next selection and question 7 – an extended response essay.***

***You can type the essay directly on this document, or type your response using the form on the test. Then just copy it & past it into this document.}***

**Part II- Do video Games have a Major Effect on Player’s Health:**

**7)** Write an essay for your school newspaper arguing whether playing video games significantly affects physical health. Your essay must be based on the ideas, concepts, and information that can be determined through analysis of the “Do Video Games Have a Major Effect on Players’ Physical Health?” passage set.

Manage your time carefully so that you can

* read the passages;
* plan your response;
* write your response; and
* revise and edit your response.

Be sure to

* include a claim;
* address counterclaims;
* use evidence from multiple sources; and
* avoid overly relying on one source.

Your response should be in the form of a multi-paragraph essay. Write your response in the space provided below: