

**FOOD, LAND, AND PEOPLE  
FCAT ASSESSMENT QUESTIONS  
PRE/POST TEST  
Answer Key**

**GERM BUSTERS**

Please select the **best** answer.

1. SC.H.1.2.2 (AA)

Shamika lives in Hastings, Florida where many people grow potatoes. Shamika did a science fair project about bacteria and potatoes. She placed a peeled potato in each of three bags. The potatoes were similar in size. The chart below shows what she did to each potato. She sealed the bags and observed the potatoes for two weeks and recorded her observations.

<b>Bag 1</b>	<b>Bag 2</b>	<b>Bag 3</b>
Washed, peeled potato	Washed, peeled potato	Washed, peeled potato
Untouched	Touched with dirty hands	Touched with washed hands

Which bag served as the control in the experiment?

- A. **Bag 1**
- B. Bag 2
- C. Bag 3
- D. Bag 2 and 3

2. SC.H.1.2.2 (AA)

What was the independent variable in Shamika's experiment?

- A. The size of the potato
- B. The amount of air in the bag
- C. How often she observed the bag
- D. **How Shamika handled the potatoes**

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3. SC.H.1.2.2 (AA)

Everyone in Shamika's class washed their hands while their teacher timed them. The chart shows some of the data:

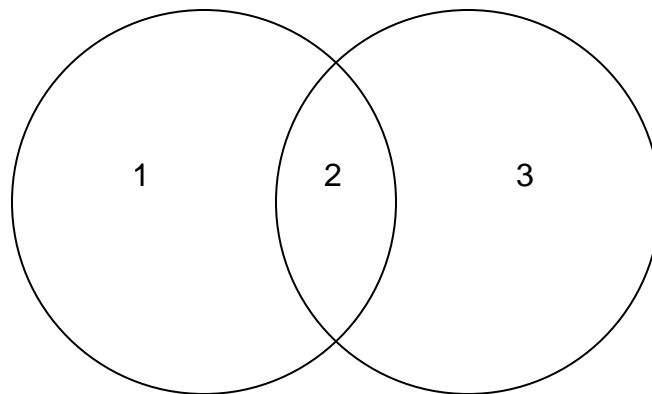
STUDENT	TIME TO WASH HANDS
John	3 seconds
Susie	6 seconds
Tommy	10 seconds
Jennifer	4 seconds
Paul	2 seconds

Calculate the mean hand washing time for the students. What is the correct answer for the mean?

- A. 10 seconds
- B. **5 seconds**
- C. 4 seconds
- D. 3 seconds

4. SC.H.1.2.4

The teacher assigned a homework assignment to make a Venn Diagram comparing and contrasting bacteria and viruses.



Which statement would be located in area 2 of the Venn Diagram?

- A. Some bacteria are helpful.
- B. **Virus and bacteria cause disease.**
- C. Virus and bacteria are similar in size.
- D. Viruses cannot reproduce by themselves.

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**5. LA.A.2.2.6**

Shamika presented her science project to the class. The class discussed many ideas and opinions about bacteria and hand washing.

Which of the ideas below is a fact?

- A. If our hands look clean, we do not need to wash them.
- B. It does not matter how long I wash my hands.
- C. **Washing my hands for less than 20 seconds may not kill all the germs.**
- D. If I am the only one eating my food, I do not need to wash my hands before eating.

Performance Task: VA.B.1.2.1

Design a poster illustrating the rules for proper hand washing techniques.

**[A correct poster would contain the following rules:**

- **Use soap**
- **At least 20 seconds**
- **Rinse with water**
- **Dry hands with a clean towel or air dry]**