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

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

Circle One: Pre-test / Post-test

**Why Are Honeycomb Cells Hexagonal**

**Directions:** Choose the correct answer out of the options provided and write it in the space provided.

1. \_\_\_\_\_\_\_\_\_ Using the measurements in the image below, which of these shapes would have the greatest surface area and volume for a honeycomb? Objects in the image are not drawn to scale.



A) Triangular Prism  
B) Cube  
C) Pentagonal Prism  
D) Hexagonal Prism

1. \_\_\_\_\_\_\_\_\_ Which of these statements about a scientific claim is NOT true?  
   A) It answers a scientific question or problem and is usually a statement about, or understanding of, a phenomenon.  
   B) It is always supported by scientific data or “evidence.”  
   C) It provides “reasoning,” or a justification, that logically connects the evidence to the claim. It is usually based on a scientific definition, law, rule, or principle.

D) It can not be revised as more evidence is gathered and/or logical connections are made that support changes in reasoning.

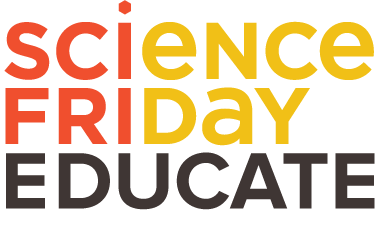
1. \_\_\_\_\_\_\_\_\_ Honeycombs are made of \_\_\_\_\_\_\_\_\_\_\_\_.  
   A) Beeswax  
   B) Nectar  
   C) Remains of the egg casings from hatched larvae  
   D) Honey
2. \_\_\_\_\_\_\_\_\_ What relationship does is there between the square and the triangle below?

  
A) The area of the square is twice as large as a triangle  
B) The area of the square is 3 times as large as a triangle  
C) The area of the square is 4 times as large as a triangle

D) The area of the square is half the size of a triangle  
E) The area of the square is a third of the size of a triangle  
F) The area of the square is a fourth of the size of a triangle

1. \_\_\_\_\_\_\_\_\_ Honeycomb cells are used to store the following…(choose all the answers that apply)   
   A) Water  
   B) Honey  
   C) Adult bees  
   D) Beeswax

E) Young bees

F) Nectar  


**Answer Key:**

1) D

2) D

3) A

4) A

5) B and E