Pre-test

1. How many legs does an insect have? __________________

2. How many body parts does an insect have? __________________

3. How many antennae does an insect have? __________________

4. Name the three body parts of an insect: ___________________

   __________________

   __________________

5. Honey bees pollinate one-third of the food we eat. Draw a picture to show one-third.

6. Bees are the only insects that produce food eaten by man. What is this food? __________

7. Each cell in the bee’s home has this shape. What is it? __________________

8. How many sides does a honeycomb cell have? __________________

9. How many sets of wings does a honeybee have? __________________

10. Each honeybee has 5 eyes! Three honeybees are circling a flower. How many bee eyes are around the flower? ____________ Draw a picture to show the eyes.

   Five honeybees are returning to the hive with nectar. How many bee eyes are returning to the hive? ____________ Draw a picture to show the eyes.

   Now there are a total of 30 bee eyes in the flower garden. How many honeybees are in the garden? _________________ Draw a picture to show the bees.
11. Continue the pattern:

12. To collect the amount of nectar needed to make 2 pounds of honey, bees must travel a distance that is approximately the same as circling the Earth four times. If we continue to compare distance this way, how many times would the bees have to go around the Earth in order to collect enough nectar to make 4 pounds of honey? _______________

   Hint: the ratio is 4:2

13. There were fourteen honeybees in the garden. Seven honeybees flew back to their nests. How many honeybees are left in the garden? Draw a picture and write your answer with a label.

   Number sentence: __________________________________________
   Answer: ___________________________________

14. Nine honeybees went looking for flowers. Six more honeybees came later. How many honeybees are there in all? Draw a picture and write your answer with a label.

   Number sentence: __________________________________________
   Answer: ___________________________________

15. Complete the following problems:

   \[ 9 + 7 = \underline{\phantom{11}} \quad 7 + 4 = \underline{\phantom{11}} \quad 8 + 7 = \underline{\phantom{11}} \]
   \[ 8 + 3 = \underline{\phantom{11}} \quad 9 + 5 = \underline{\phantom{11}} \quad 7 + 6 = \underline{\phantom{11}} \]

16. Show the fact family for the numbers 8, 3, and 11.

   \[ \underline{\phantom{11}} \quad \underline{\phantom{11}} \quad \underline{\phantom{11}} \quad \underline{\phantom{11}} \quad \underline{\phantom{11}} \]