Pollinator Math in the Gardens Answer Key

2. Now look at your results for the Meadow Garden. How many bees did you observe in ten minutes? A How many bees do you think you would see in 60 minutes? Show your work.

\[ A \times 6 = \text{bees in 60 minutes} \]

3. How many flies did you observe in the Rose Garden? If a fly visits 15 flowers in ten minutes, how many flowers will it visit in 1 hour?

\[ 15 \times 6 = 90 \text{ flowers in 1 hour} \]

4. If a honeybee beats its wings 60 times per minute, how many times will it flap its wings in 10 minutes? In 1 hour? (Fact: Honeybees beat their wings 11,400 times per MINUTE!)

\[ 60 \times 10 = 600 \text{ times in 10 minutes} \]
\[ 60 \times 60 = 3600 \text{ times in 1 hour} \]

5. If a butterfly lands on a flower and has enough pollen on itself to pollinate three flowers, how many flowers would get pollinated if:

- The butterfly gets pollen from 5 flowers?
  \[ 3 \times 5 = 15 \text{ flowers would get pollinated} \]
- The butterfly gets pollen from 10 flowers?
  \[ 3 \times 10 = 30 \text{ flowers} \]

6. A bee can travel at about 15 miles per hour visiting 75 flowers. How many miles would it travel in 12 hours? How many flowers would get pollinated in 12 hours?

\[ 12 \times 15 = 180 \text{ miles in 12 hours} \]
\[ 12 \times 75 = 900 \text{ flowers would get pollinated in 12 hours} \]

7. How many miles would a bee travel in a day? Or a week?

\[ 24 \times 15 = 360 \text{ miles in one day} \]
\[ 7 \times 360 = 2520 \text{ miles in one week} \]