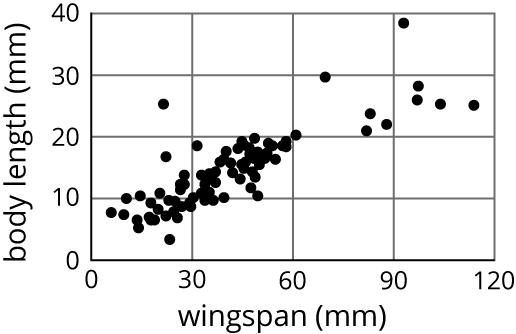
### Lesson 12 Practice Problems

1. Which is larger: the number of meters across the Milky Way, or the number of cells in all humans? Explain or show your reasoning.

* Some useful information:
  + The Milky Way is about 100,000 light years across.
  + There are about 37 trillion cells in a human body.
  + One light year is about meters.
  + The world population is about 7 billion.

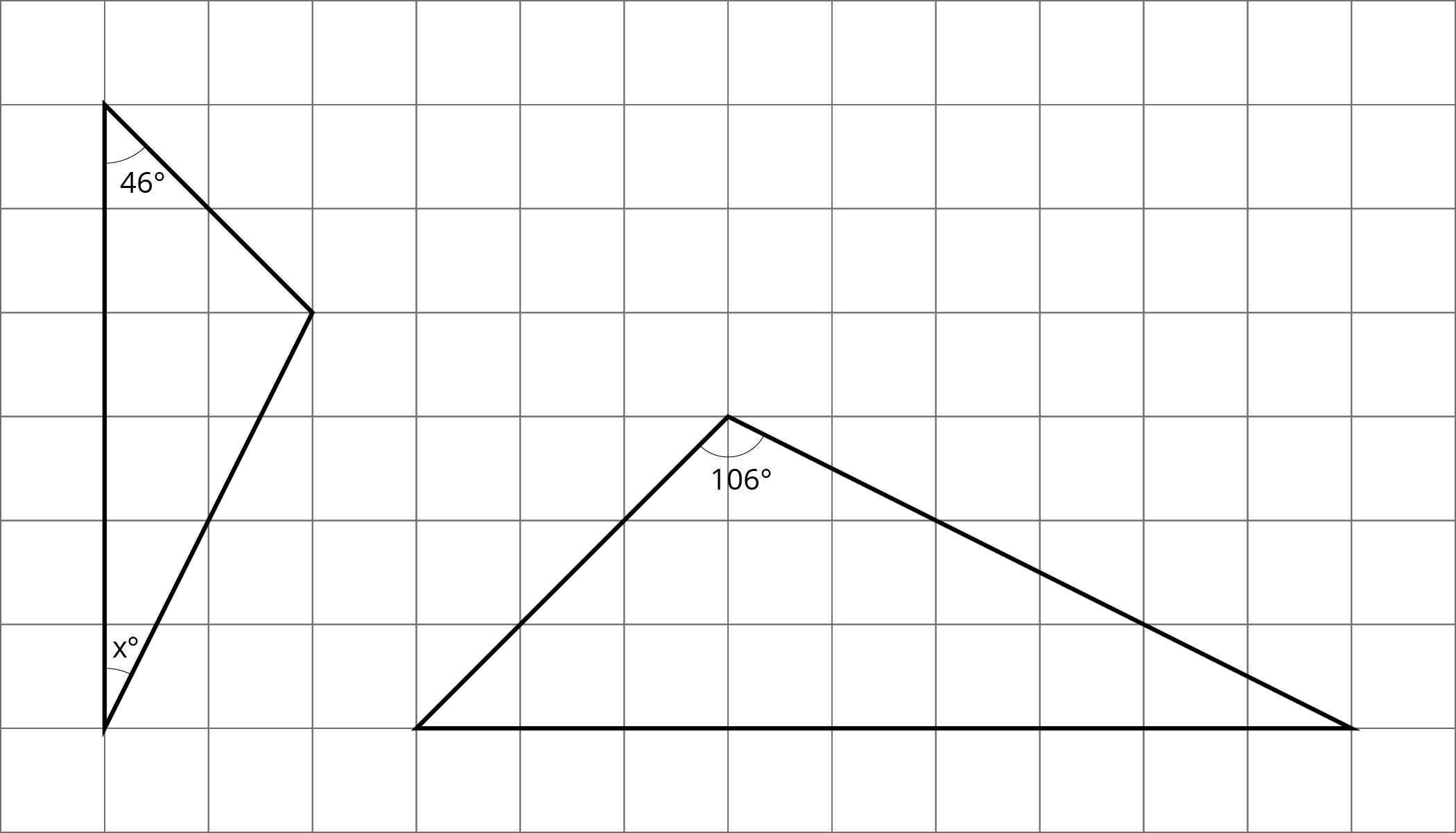
1. Ecologists measure the body length and wingspan of 127 butterfly specimens caught in a single field.
   1. Draw a line that you think is a good fit for the data.
   2. Write an equation for the line.
   3. What does the slope of the line tell you about the wingspans and lengths of these butterflies?

* 
* (From Unit 6, Lesson 5.)

1. Diego was solving an equation, but when he checked his answer, he saw his solution was incorrect. He knows he made a mistake, but he can’t find it. Where is Diego’s mistake and what is the solution to the equation?

* (From Unit 4, Lesson 5.)

1. The two triangles are similar. Find .

* 
* (From Unit 2, Lesson 7.)



© CC BY Open Up Resources. Adaptations CC BY IM.