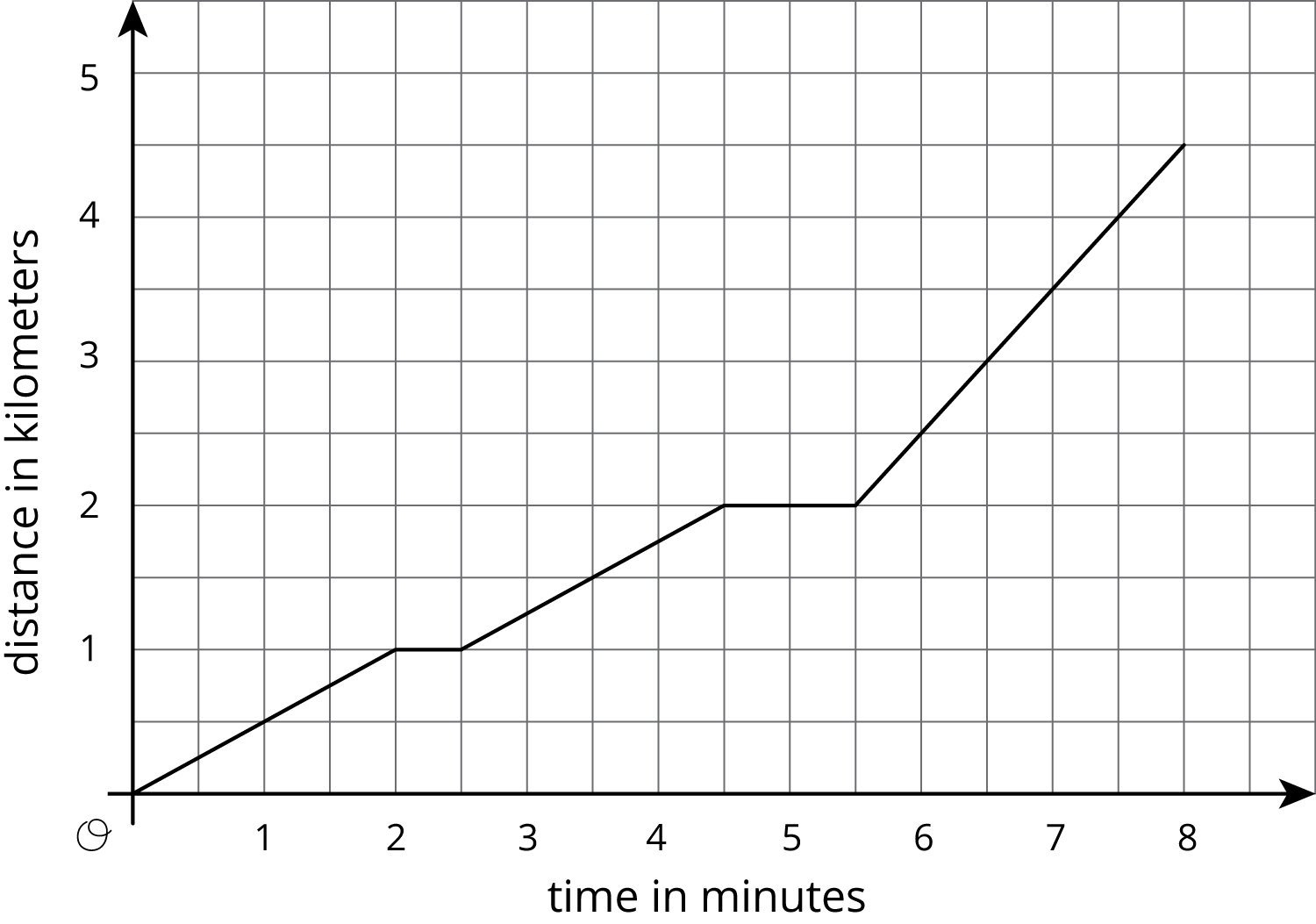
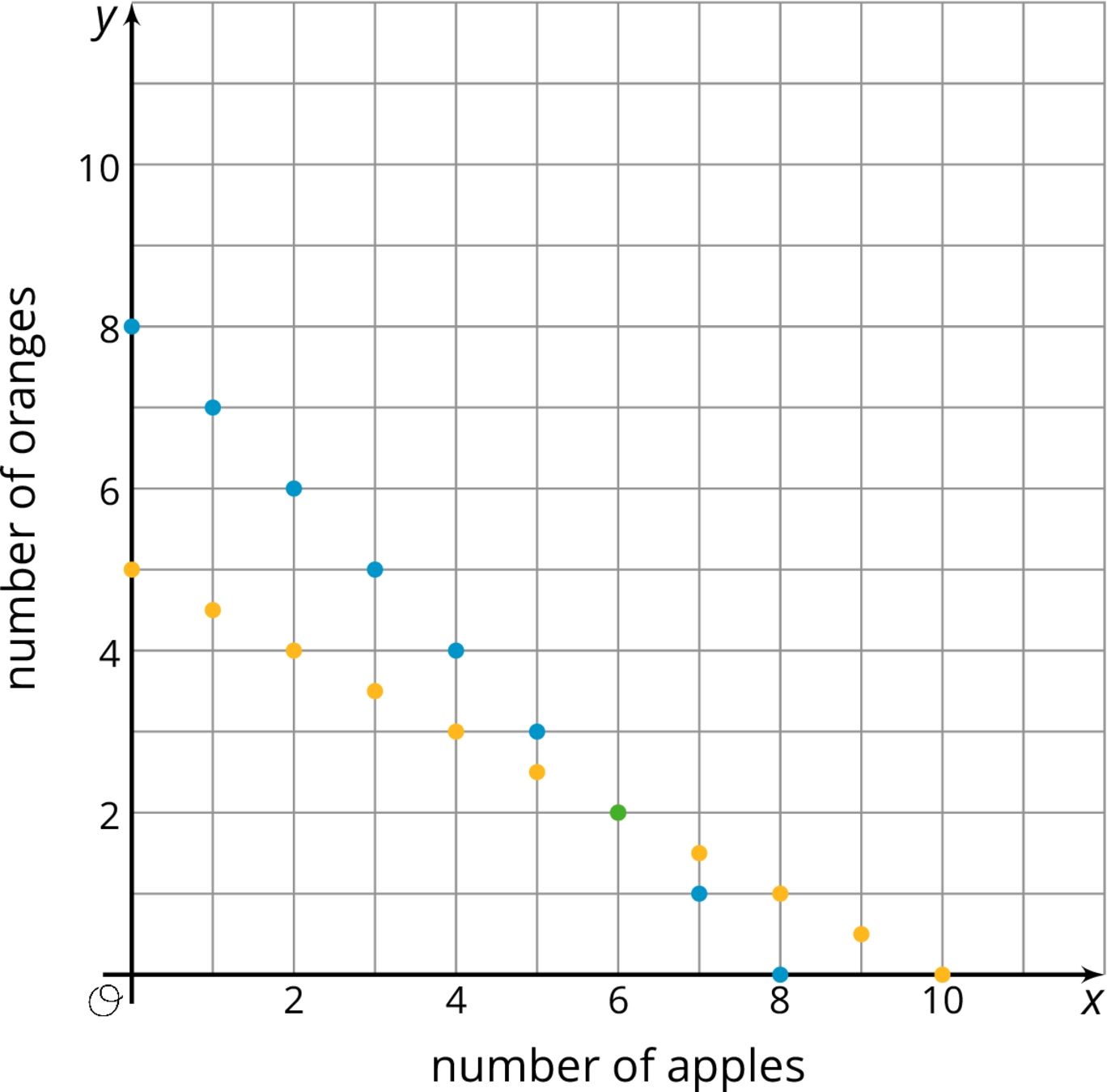
## Unit 7 Lesson 14 Cumulative Practice Problems

1. Evaluate each expression, giving the answer in scientific notation:

   2. Write a scenario that describes what is happening in the graph.
   3. What is happening at 5 minutes?
   4. What does the slope of the line between 6 and 8 minutes mean?

* 
* (From Unit 6, Lesson 10.)

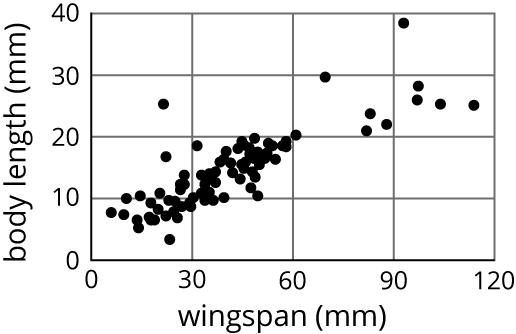
1. Apples cost $1 each. Oranges cost $2 each. You have $10 and want to buy 8 pieces of fruit. One graph shows combinations of apples and oranges that total to $10. The other graph shows combinations of apples and oranges that total to 8 pieces of fruit.

* 
  1. Name one combination of 8 fruits shown on the graph that whose cost does *not* total to $10.
  2. Name one combination of fruits shown on the graph whose cost totals to $10 that are *not* 8 fruits all together.
  3. How many apples and oranges would you need to have 8 fruits that cost $10 at the same time?
* (From Unit 5, Lesson 12.)

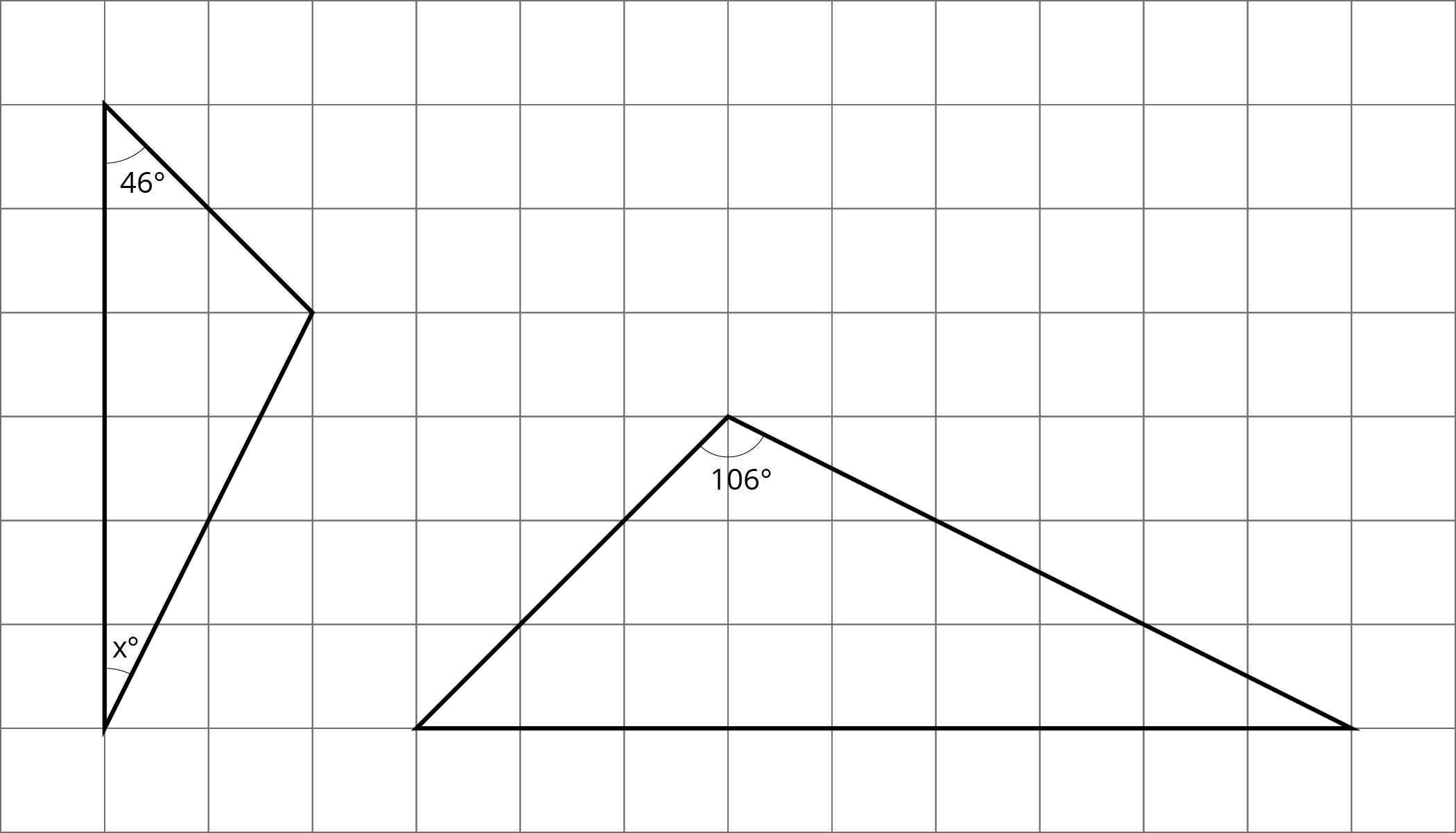
1. Solve each equation and check your solution.

* (From Unit 4, Lesson 13.)

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 5, Lesson 20.)

1. The two triangles are similar. Find .

* 
* (From Unit 2, Lesson 12.)



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