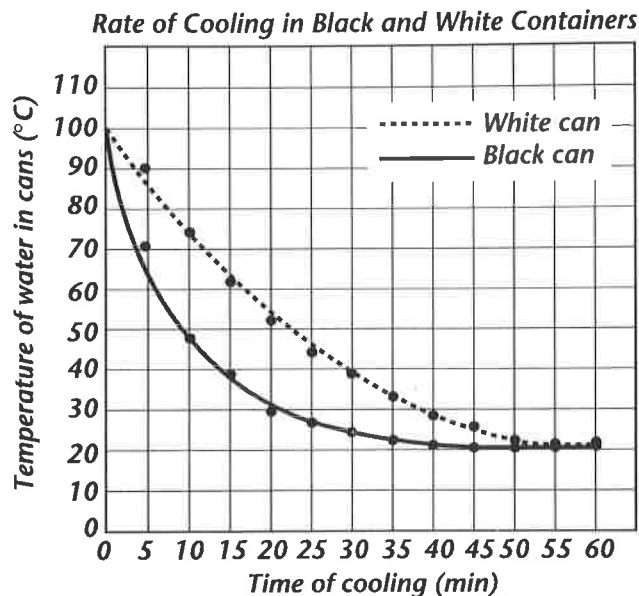


SKILLS PRACTICE**Drawing Conclusions**

Answer the questions below on the back of this page or on a separate sheet of paper.

Olena and Bruce are studying whether the color of a container affects how fast the container cools down. Olena wrote this hypothesis: *If you put hot water in white and black cans, the cans will cool down at the same rate.* Bruce wrote this hypothesis: *If hot water is put in black and white cans, the black can will cool down faster than the white can.* They then tested their hypotheses. Here is their graph.



1. Examine the data presented in the graph. Notice the temperatures of the black and white cans at the times the measurements were taken. What does this data tell you about the way the two cans cooled down?
2. Compare the evidence in the graph with Olena's hypothesis. What conclusion should Olena draw?
3. Compare the evidence in the graph with Bruce's hypothesis. What conclusion should Bruce draw?
4. Neither Bruce or Olena included anything about the cans' final temperatures in their hypotheses. Rewrite one of their conclusions to include information about the final temperatures of the cans.
5. **Think About It** Who do you think learned more about temperature changes: Bruce or Olena? Does it make any difference if one person's hypothesis was shown to be false? Explain.

