

***Cupcakes, Cupcakes!***

Andrei's school is having a Science Fair this afternoon and he agreed to bring four dozen cupcakes for the reception afterwards. To catch his bus, he needs to be out of the house at 7:50 a.m. He started icing the cupcakes at 7:40 a.m. at a rate of 3 cupcakes per minute.



He soon realized that he wasn't going to finish in time, so at 7:44 his older sister, Zoe, started icing cupcakes too. She iced them at a rate of 4 cupcakes per minute. As they iced the cupcakes, they placed them directly in the boxes that he would carry on the bus. This way, when they iced the last cupcake, Andrei would be ready to dash out the door.

**Question:** Did they finish in time for Andrei to catch his bus? Explain.

**Extra:** When did they finish icing the last cupcake?