

Name \_\_\_\_\_

Date \_\_\_\_\_

## Pottery Factory

A pottery factory has two machines: a fast machine and a slow machine. The fast machine paints a pot in 3 minutes. The slow machine paints a pot in 10 minutes. Right now there's a pile of 50 unpainted pots waiting to go into the slow machine, and a pile of 28 unpainted pots waiting to go into the fast machine.

(1) If you start the machines at the same time, which machine will finish its pile first?

(2) How many minutes later will the other machine finish its pile?

(3) Imagine instead that before starting the machines, you move some unpainted pots from the slow machine's pile to the fast machine's pile. How many pots would you move so that the two machines finish painting at the same time?