

## **Introductory Exercise – Farmer Jones**

*Name:*

Farmer Jones bakes two types of cake (chocolate and plain) to supplement his income. Each chocolate cake can be sold for \$4 and each plain cake can be sold for \$2. Each chocolate cake requires 20 minutes of baking time, 250 mL of milk and 4 eggs, while each plain cake needs 50 minutes baking, 200 mL of milk and only 1 egg. In each day there are eight hours of baking time available. Farmer Jones' hens lay 30 eggs each day and his cows produce 5 L of milk. How many of each type of cake should Farmer Jones bake each day to maximize his revenue?