

DELTA MATH SCIENCE PARTNERSHIP INITIATIVE

M³ Summer Institutes

(Math, Middle School, MS Common Core)

Ratio and Proportional Reasoning

1. Two prized chickens lay eggs according to the following:
 - a. Rhode Island Red who lays 8 eggs every 6 days; and
 - b. Mrs. Feathersworth who lays 6 eggs every 4 days.

In 12 days, how many eggs are laid?

2. If 4 chickens lay 2 eggs in 2 days, in how many days do 4 chickens lay 4 eggs?

In how many days do 4 chickens lay 2 eggs?

In how many days do 4 chickens lay 12 eggs?

3. Tom and Bill cut grass. Tom can cut Mrs. Greengrass's yard in 20 minutes whereas Bill needs 30 minutes to do the same job. Working together, how long does it take them to cut Mrs. Greengrass's yard?

a. If they are paid \$120 for doing the job, how much should each person be paid?

b. If paid by proportion of job, how much is each paid?