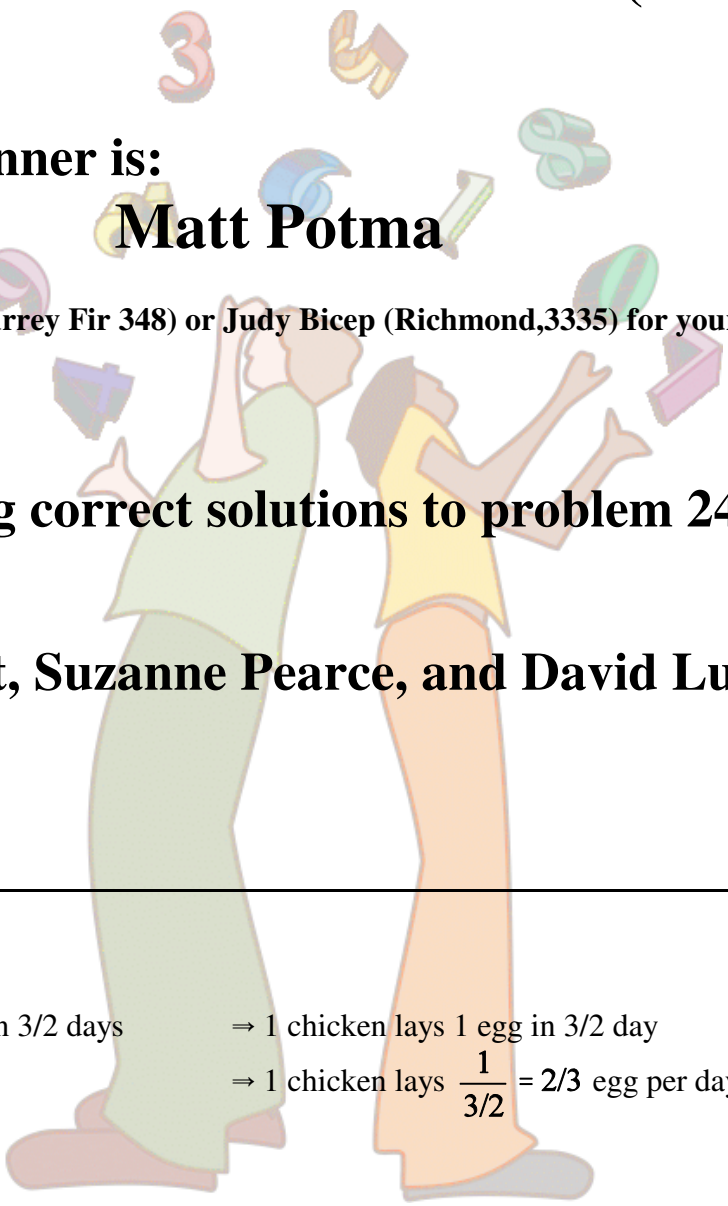
Kwantlen Polytechnic University

Mathematics Problem of the Week (240)



This week's winner is:

Matt Potma

Contact Lin Hammill (Surrey Fir 348) or Judy Bicep (Richmond,3335) for your prize or email MathProblem@kpu.ca**.**

Also submitting correct solutions to problem 240 were:

Jane Forst, Suzanne Pearce, and David Luna

Problem 240 solution:

3/2 chickens lay 3/2 eggs in 3/2 days ⇒ 1 chicken lays 1 egg in 3/2 day

⇒ 1 chicken lays $\frac{1}{3/2} = 2/3$ egg per day.

a. Ten chickens lay 10×(2/3) = 20/3 eggs/day so ten chickens lay 20/3×10 = 200/3 ~ 66.667 eggs in ten days.

b. 10 chickens ×2/3 (eggs/chicken)/day ×x days = 10 ⇒ x = 10 ÷ (20/3) = 3/2.
It takes a day and a half.

c. x chickens ×2/3 (eggs/chicken)/day ×10 days = 10 ⇒ x = 10 ÷ (20/3) = 3/2.
It takes 3/2 chickens.