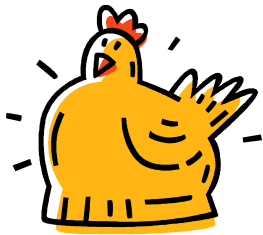


Enatai Math Challenge 2

January 2009

These problems are labeled in order of increasing difficulty. Choose the one that you think fits your grade and math ability and solve the problem. People at home can help you. You will need to submit your answer using the R-E-C format that is explained on the attached form. Be certain to put the letter of the problem, your name and your teacher's name on the form when you submit it. All solutions are due to Mrs. Gaylord by Friday, January 30th. Bring your completed R-E-C form to the office. Students who successfully complete the challenge with the correct answer and a logical explanation of their mathematical thinking will receive a certificate and their name listed in the Principal Update. Happy Problem Solving!!!



Primary Problem A

A farmer has 4 hens. Each hen lays 2 eggs per day. How many eggs will they lay altogether in one week?

Primary Problem B

After getting possession of the football on the 12 yard line, a football team advances the ball 10 yards. On the next play, the players advance the ball another 17 yards. A foul is called on the play, which pushes the team back 10 yards. Where will the ball be spotted now?

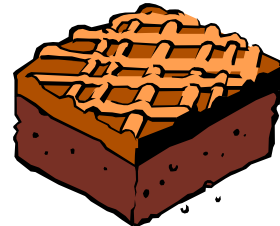


Primary Problem C

Sharelle, Steven, and Jacques ride their bikes to school. It takes Sharelle twice as long as Jacques and half as long as Steven to ride her bike to school. If it takes Jacques ten minutes to get to school, how long does it take Sharelle and Steven?

Primary Problem D

For a fundraiser, you are selling brownies. You have baked 5 pans and each pan has 9 brownies. If you charge \$0.50 per brownie, how much money will you raise?



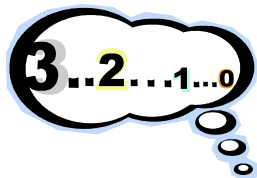
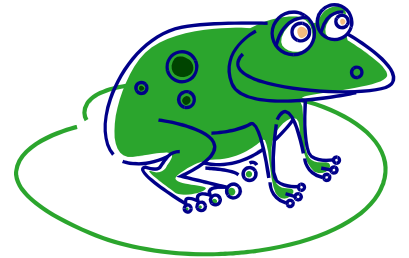


Intermediate Problem E

In *Game Time* (Murphy 2000), the Huskies are playing in a big soccer game against their rivals the Falcons. The game lasts 1 hour. The Falcons score first after $\frac{1}{5}$ of the game has been played. If the game started at 10:15, what time did the Falcons score? Each of the two periods lasts 40 minutes, with a 10 minute half time in between. Ten minutes into the second period, the Huskies score! What time was it when they scored? What fraction of the game had gone by when they scored?

Intermediate Problem F

Little green frogs can catch 3 flies in 1 hour; big bullfrogs can grab 8 flies in each hour. In an average day, bullfrogs sleep 17.5 hours, and little green frogs only need to sleep 7 hours. After a full 3 days, which frog can catch more flies, the bullfrog or the little green frog? How many more flies did that frog catch after three days?



Intermediate Problem G

How many different 1, 2, or 3 digit whole numbers can be made using the digits 2, 5, and 8? No digit may be repeated within any one number.

Super-Duper Challenge Problem

Anthony plans to use 70 inches of wire to build a rectangle that is 7 times as long as it is wide. What will be the area of his rectangle?

