

Name: _____

Heatherwood Mathletes

Take Home Word Problems: Introductory and Intermediate

Due: November 6, 2003

In doing these problems, try to think how you would break them into the following steps:

- (1) understand the problem,
- (2) develop a strategy of solution,
- (3) execute the solution.
- (4) check your result to make sure it's right.

Introductory Problems

Introductory Problem 1. Jack has four oranges and Jill has five oranges. How many oranges total do Jack and Jill have?

Introductory Problem 2. Jack has four oranges and Jill has four times as many oranges as Jack. How many oranges total do Jack and Jill have?

Intermediate Problems

Intermediate Problem 1. The total number of oranges that Jack and Jill have together is 45. How many oranges does Jack have if he has half as many as Jill?

Intermediate Problem 2. (52.1) When 24 is added to a number, the result is the same as when the number is multiplied by 3. What is the number?

Intermediate Problem 3. (52.3) Jenny has equal numbers of nickels and quarters but the value of the quarters is \$1.80 more than the value of the nickels. What is the total value of all coins together in dollars and cents?

Intermediate Problem 4. (52.4) In the addition problem below, AB and BA each represent a two-digit number, and A and B stand for different digits. What is the value of BA , AB , and CAA ?

$$\begin{array}{r} BA \\ AB \\ +AB \\ \hline CAA \end{array}$$