

Name: _____

Heatherwood Mathletes
Warm-up Exercises: Orange and Green Belts
November 20, 2003

Multiplication

$$\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ \times 14 \\ \hline \end{array}$$

Division (express fractions in simplest terms)

$$15/3 =$$

$$\frac{42}{6} =$$

$$50 \div 7 =$$

$$40 \div 6 =$$

Fractions (express fractions in simplest terms)

$$\frac{1}{4} + \frac{2}{4} =$$

$$\frac{1}{6} + \frac{2}{3} =$$

$$\frac{1}{4} - \frac{1}{6} =$$

$$\frac{1}{4} \times \frac{1}{2} =$$

$$\frac{2}{7} \times \frac{2}{5} =$$

$$1\frac{1}{2} \times \frac{1}{3} =$$

Word Problems

Problem 1. What is the number that when you multiply it by 4 and add 4 you get 24? (Write an equation for this problem. Then solve the equation.)

Problem 2. What is the number that when you multiply it by 4 and add 4 you get 25? (Write an equation for this problem. Then solve the equation.)

Problem 3. (Olympiad 20.1) A train is traveling at the speed of 1 mile in 1 minute and 20 seconds? How far will the train travel in 1 hour?

Problem 4. (Olympiad 20.2) Which number between 1 and 100 satisfies the following conditions? If it is divided by 3 or 5, the remainder is 1. If it is divided by 7, there is no remainder?