

Name: _____

Heatherwood Mathletes
Warm-up Exercises: Orange and Green Belts
December 4, 2003

Mixed Addition and Subtraction

$$\begin{array}{r} 24 \\ + 17 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \\ - 27 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ + 46 \\ \hline \end{array}$$

$$\begin{array}{r} 92 \\ - 37 \\ \hline \end{array}$$

Multiplication

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

$$\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \times 17 \\ \hline \end{array}$$

Division (express fractions in simplest terms)

$$16/4 =$$

$$\frac{45}{9} =$$

$$50 \div 8 =$$

Fractions (express fractions in simplest terms)

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

$$\frac{1}{3} - \frac{1}{6} =$$

$$\frac{2}{7} \times \frac{5}{6} =$$

Solve for x

$$x - 4 = 12$$

$$4x - 4 = 12$$

$$4x - 4 = 13$$

Word Problems

Problem 1. What is the number that when you multiply it by 7 and add 4 you get 32? (Write an equation for this problem. Then solve the equation.)

Problem 2. (Olympiad problem of the month of November) Amanda wants to buy a bicycle but is \$23 short. Emily wants to buy the same bicycle but is \$25 short. If they combine their money, they will have exactly enough to buy the bicycle. What is the cost of the bicycle?

Problem 3. (Olympiad problem of the month of December) A group of 30 bikers took a trip. Some rode bicycles built for one ("Bikes") and others rode bicycles built for two ("Tandems"). If the total number of bikes and tandems is 23, how many tandems were used?