

Name: _____

Heatherwood Mathletes
Heatherwood Math Olympics 2004-2005: Test 3 for Orange/Green Belts
April 7, 2005

Addition (2 points each)

$$\begin{array}{r} 17 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ + 36 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ + 26 \\ \hline \end{array}$$

$$\begin{array}{r} 96 \\ + 34 \\ \hline \end{array}$$

Subtraction (2 points each)

$$\begin{array}{r} 19 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \\ - 23 \\ \hline \end{array}$$

$$\begin{array}{r} 77 \\ - 28 \\ \hline \end{array}$$

$$\begin{array}{r} 120 \\ - 33 \\ \hline \end{array}$$

Multiplication (2 points each)

$$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 6 \\ \hline \end{array}$$

Fractions (2 points each)

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

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

$$\frac{3}{4} - \frac{1}{4} =$$

Word Problems (5 points each)

Problem 1. John has 8 baseball cards. Each is worth \$3. How much are the cards worth all together?

Problem 2. There are eight Christmas trees in the hotel. Each has 10 lights. How many lights are there in all?

Problem 3. How many basketball cards can be bought with 42 dollars if each card costs 7 dollars?

Problem 4. What is the number that when you multiply it by 4 and then add 4 you get 24?

Problem 5. In its first year, a play sells 57 tickets, in its second year it sells 63, and in its third year it sells 22 less than the second year. How many tickets are sold in all three years?

Problem 6. There are 148 more blue beads than green beads in a box. If another 12 blue beads and 28 green beads are put into the box, how many more blue beads than green beads will there be in the box?

Geometry: Area (10 points each)

What is the area of each of the shaded regions in the four figures shown on this and the following three pages? Present your result in terms of the number of little squares the shaded area occupies.





