SUNSHINE MATH - 6
Uranus, XI

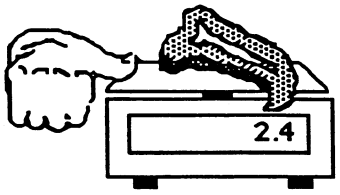
Name: _____

(This shows my own thinking.)

★★★★ 1. Harry the Hog is a disgrace to butchers everywhere! He's known for keeping his thumb on the scale for a little extra weight and therefore money. The T-bone sells for $2.99 a pound, but Harry's thumb has added 0.3 lb. to the scale.

a. What will you pay for the steak if you don't notice his thumb? _____

b. What will you pay for the steak if you make him remove his thumb? _____



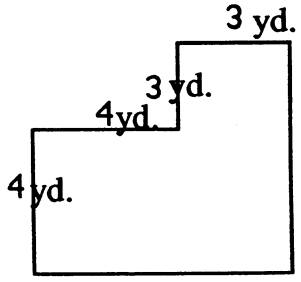
★★ 2. A notebook costs $1 more than a pencil. Together they cost $1.50. How much does each item cost?

Answer: a) The notebook costs _____.

b) The pencil costs _____.

★★★ 3. One of the classrooms at the middle school is shaped like the picture to the right. What is the area of the entire room?

Answer: _____



★ 4. Arrange the fractions $\frac{2}{3}$, $\frac{1}{2}$, $\frac{5}{6}$, $\frac{7}{12}$, and $\frac{3}{4}$ in order from smallest to largest.

Answer: _____ _____ _____ _____ _____

★★ 5. Johnny had a raise in pay that moved him from $4.00 an hour to $4.60 an hour. What was his percentage of increase in pay for one hour?

Answer: The percentage raise was _____% per hour.

★★★★ 6. In the array below, the middle entry in each *odd* row is the square of the row number itself. So in the third row, the middle entry is nine, and 3 x 3 = 9.

a) What is the middle entry of the 23rd row going to be?

Answer: _____

			1					→ row 1
		3		5				→ row 2
	7		9		11			→ row 3
13		15		17		19		→ row 4
21	23		25		27		29	→ row 5

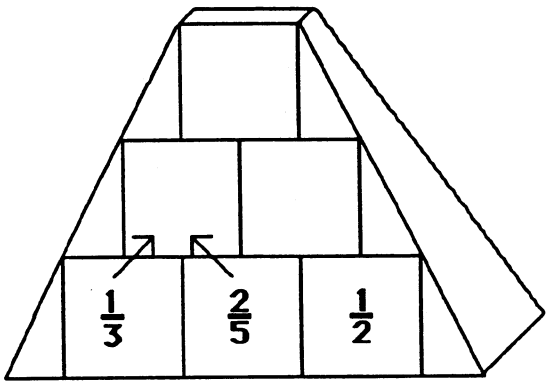
b) What will be the sum of the numbers in the 10th row?

Answer: _____

★ 7. A digit in the fifth place to the left of the decimal point has what place value?

Answer: _____

★★ 8. Complete the pyramid by adding adjacent fractions and placing the sum above the two numbers being added. Put your answers in lowest terms in the three squares.



★★ 9. To make four servings of cream of wheat, you bring to a boil 4 cups of water, and then mix in $\frac{2}{3}$ of a cup of cream of wheat. But a family of three doesn't want to make four servings.

a. How much water would be required for three servings of cream of wheat? _____

b. How much cream of wheat would be required for a serving of three? _____