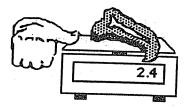
## MATH SUPERSTARS – 6 Uranus, XI

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? \_\_\_\_\_



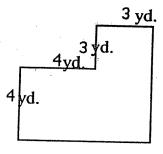
★★ 2. A notebook costs \$1 more than a pencil. Together they cost \$1.50. How much does each item cost?

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?



**\*** 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: \_\_\_\_\_

Answer:

35

★★ 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  $3 \times 3 = 9$ .
  - a) What is the middle entry of the 23rd row going to be?

						1					$\rightarrow$ row 1
	Answer:				3		5				$\rightarrow$ row 2
				7		9		11			$\rightarrow$ row 3
	5		-13		15		17		19		$\rightarrow$ row 4
		21		23		25		27		29	$\rightarrow$ row 5
b)	What will be the sum of the numbers in the 10th row?							-			

Answer: \_\_\_\_\_

 $\star$  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.

 $\frac{1}{3}$   $\frac{2}{5}$   $\frac{1}{2}$ 

**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?

÷