Name

1. Use the inverse operation to check this calculation.
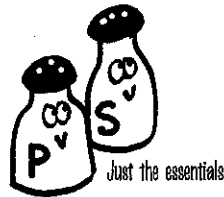
$$24,396 \div 76 = 321$$

2. At a café that specializes in chocolate, there are 91 ounces of chocolate powder in 13 cups of hot chocolate. How many cups can be made with 385 ounces?

3. Is the solution correct?

$$6p - 4(p + 5) = 38$$
$$p = 29$$

**4.** A triangle has a 35° angle and a 65° angle. What is the measure of the third angle?

Just the essentials.

5. a. Find the mode of the data.

b. Find the median of the data.

c. Find the mean of the data.

d. Find the range of the data.

Restaurant Supplies
Plates......................$6.50 ea
Candle Holder............$7.00
Sugar Shaker...............$3.90
Tablecloth.................$15.50
French Fry Slicer.......$28.60
Cream Pitcher.............$4.20
Salt & Pepper Shaker...$3.90
Coffee Mug..................$4.50

Name

1. What are the variables in this expression?

$$5c + 8d - d^2 + c$$

2. Write a problem related to a restaurant. The problem must have an answer of –$5,100.

It's the math problem du jour.
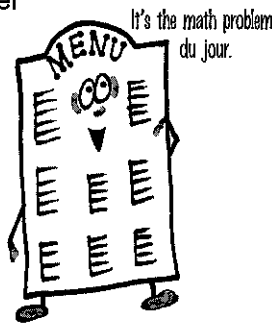
3. Compute:

$$5.7\overline{)1.881}$$

4. Which numbers are not divisible by six?

○ 270   ○ 76   ○ 640

○ 144   ○ 206   ○ 700

5. Fill in the missing measurements.

a. 15,840 ft = _____ mi

b. _____ cm = 0.12 km

c. 9 kg = _____ gm

d. _____ oz = 17 lb

e. 44 pt = _____ gal

f. _____ in² = 3 ft²

g. _____ L = 30,000 mL

h. _____ hr = 28,800 sec

Name

1. Underline any information that is not needed to solve the problem.

   The building that houses Lynn's Paradise Café in Louisville, Kentucky is decorated with an 8-foot by 24-foot mural made of corn cobs. The café is open 15 hours on Tuesday through Friday, and a total of 26 hours on the weekend. What is the area covered by the mural?

2. Compute: **−3,696 ÷ 44 =**

3. Solve the equation:

   A number (q) is equal to nine times the difference between the number (q) and negative six.

4. A figure has six faces, twelve edges, and eight vertices. What is the figure?

5. At Hank's café, Hank gives a sandwich and drink of his choice to each customer. The drinks are tea, coffee, and milk. The sandwiches are turkey, roast beef, ham, and chicken salad. Finish the tree diagram to show the possible combinations that a customer might be given.

Order, please.

turkey (t)
roast beef (rb)
ham (h)
chicken salad (cs)

t
c
m
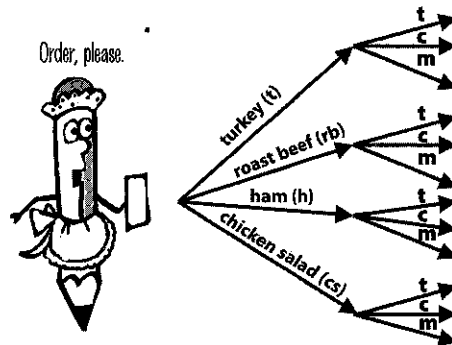
Name

1. Compute: $\dfrac{2}{5} \times \dfrac{1}{2} \times \dfrac{3}{9} =$

2. A diner orders deep-fried caterpillars every time he comes into Joe's Eatery. He eats 4 on Mondays, 7 on Tuesdays, 13 on Wednesdays, and 25 on Thursdays. Predict the number he eats on Saturdays.

3. Simplify the expression.

   $5(a^2 + a - 7) + 6c^2 + 6$

4. At Chez Antoine Restaurant, the cashier takes in 138 pennies a day, beginning with his opening on July 1. On what day will he take in the 5,000th penny?

5. a. Measure the chocolate-covered beetle in inches. (Round to the nearest half-inch.)
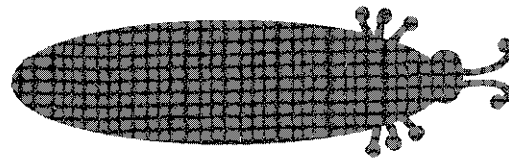
   b. Measure the fried worm in centimeters. (Round to the nearest centimeter.)

1. Is the computation correct?

$$\begin{array}{r} \$\ 66,503.29 \\ -\ 18,266.54 \\ \hline \$\ 58,347.75 \end{array}$$

2. Which measurements are reasonable?

a. A little girl drinks a 10 L milkshake.

b. A restaurant serves hamburgers weighing 3.5 grams each.

c. The entrance to a café is 3 meters high.

d. A coffee shop serves their coffee in cups that hold ten ounces.

3. Estimate the answer:

$$(9,893 + 2,121) - 3,006 =$$

4. If $b = -2$, what is a?

$$12 - 3b^2 + a = 40$$

a. 16

b. –16

c. 40

d. –40

5. Challenge Problem

Kate and Nate meet for lunch at their favorite bistro. They love the unusual food! The restaurant adds a six percent state tax to all orders.

Sage Brush Cafe
Menu

Frog Legs Dinner	$13.50
Snails & Shrimp	$16.00
Rattlesnake Steak	$14.50
Garlic Potatoes	$3.00
Shredded Yams	$3.00
Slaw	$2.50
Triple Fudge Cake	$3.95
Coffee, Tea, Milk	$1.50

Kate's Order:	
Snails & Shrimp	
Garlic Potatoes	
Tea	
Cake	
Tax:	
Total:	

Nate's Order:	
Rattlesnake steak	
Yams	
Slaw	
Coffee	
Tax:	
Total:	

a. How much is Kate's tax?

b. How much is Nate's tax?

c. What is Kate's total bill with tax and a 20 percent tip? *(The tip is calculated on the total bill without the tax.)*

d. What is the difference in the total bills *(including tax)*?

e. Nate has only two $20 bills with him. What will be his change after he pays his bill?