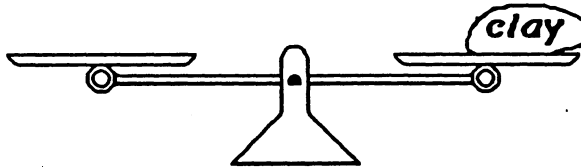


SUNSHINE MATH - 6
Uranus, XXVII

Name: _____

(This shows my own thinking.)

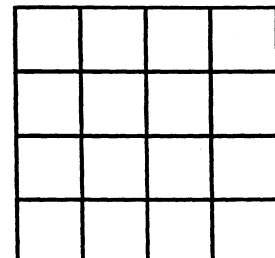
- ★★★★ 1. Mark claims the lump of clay weighs 25 grams, but only has a 1-gram, a 3-gram, a 9-gram, and a 27-gram weight to use for the balance scale. Show where he can place the weights to prove the clay weighs 25 grams.



- ★★ 2. If your math scores were 76, 76, 83, 85, and 90, which statistic would give you the best final grade -- the *mean*, the *median*, the *mode*, or the *range* of these scores?

Answer: _____

- ★★★ 3. How can you arrange 4 pennies, 4 nickels, 4 dimes, and 4 quarters in this grid so that each row, each column, and each diagonal contain exactly one of each type of coin? Write P, N, D, or Q in each square to show your solution.



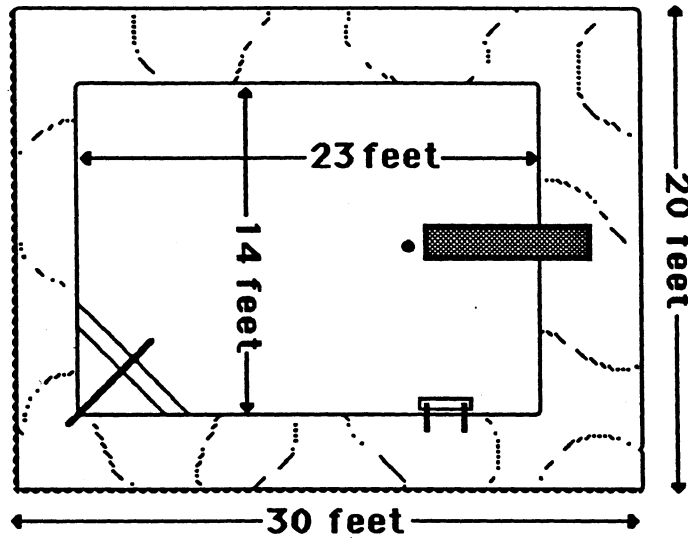
- ★★ 4. Diana and Felicia want to can 12 quarts of tomatoes from their family's garden. They already have 7 quart jars and 6 pint jars. If only quart and pint jars are available, what is the fewest number of jars they can buy to have enough?

Answer: _____ jars

- ★ 5. What is the probability of being born in a month with more than 30 days?

Answer: _____

- ★★★★ 6. The diagram below shows a new swimming pool at the city park. The pool contractor wants to border the pool with ceramic tiles that are 6" squares. If each tile costs \$2.75, what is the total cost of the tiles?



Answer: _____

- ★★ 7. Timothy received three \$20 bills for his birthday. He wants to buy a tennis racquet for \$29.95 and two cans of tennis balls for \$2.49 each. He also wants to buy a new tennis shirt for \$14.95. About how much money should he have left, if his mom agrees to pay the tax? Circle the correct answer.

a) \$10 b) \$5 c) \$15

- ★★ 8. Tim earned some extra money and bought some new CDs. 50% were rock, 25% were country-western, and the rest were classical. He bought 3 classical CDs. How many CDs did he buy?

Answer: _____

- ★ 9. Cleopatra was 39 years old when she died in 30 BC. In what year was she born?

Answer: _____