Simple Solutions

Problem One

a. Use your calculator to complete this number pattern.
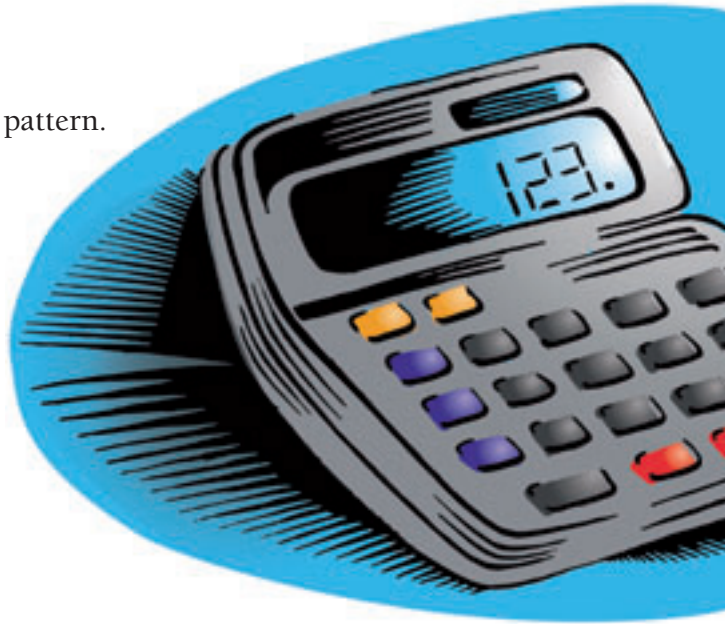
$(1 \times 8) + 1 \ = \ $ _____

$(12 \times 8) + 2 \ = \ $ _____

$(123 \times 8) + 3 \ = \ $ _____

$(1\ 234 \times 8) + 4 \ = \ $ _____

b. Predict the answer to $(12\ 345 \times 8) + 5$ and $(123\ 456\ 789 \times 8) + 9$. Check your answer.
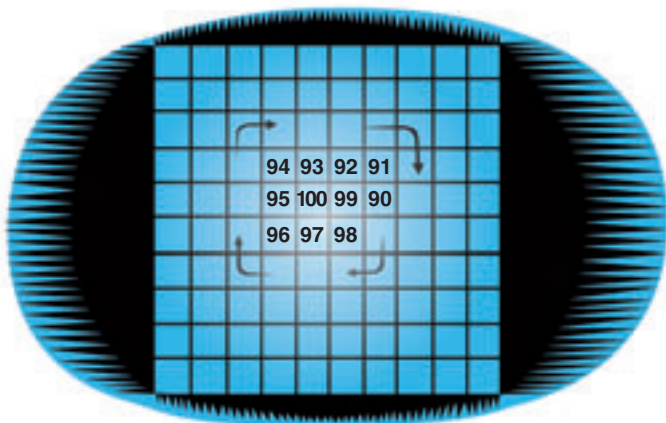
Problem Two

Only six people came to Mrs Brown's afternoon tea. She had bought 60 cream buns.

Everyone ate the same number of cream buns.

a. How many buns might they each have eaten?

b. How many buns would then be left over?

Problem Three

Janice has nine marbles and a set of balance scales. One marble is lighter than the other marbles. How many times will Janice need to use the scales to find the lighter marble?

94	93	92	91
95	100	99	90
96	97	98	

Problem Four

If this pattern continues, which square will have the number 28 in it?