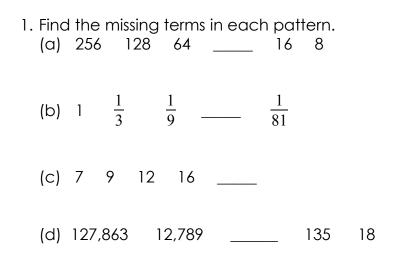
## Problem Solving Problems #2



2. Look for a pattern in the first grid. Then use the pattern you observed to fill in the missing numbers of the second grid.

72	36	2
8	4	2
9	9	1
60	6	
60	6	5

3. Would you rather work for a month (30 days) and get paid \$1,000,000 or be paid 1 cent the first day, 2 cents the second day, 4 cents the third day, 8 cents the fourth day and so on? Why?

- 4. The integers greater than 1 are arranged as shown:
  - 2 3 4 5 9 8 7 6 10 11 12 13 17 16 15 14

- (a) In which column will 100 fall?
- (b) In which column will 1000 fall?
- (c) In which column will 1999 fall?
- (d) In which column will 99,997 fall?
- 5. In a dart game, only 4 points or 9 points can be scored on each dart. What is the largest score that it is not possible to obtain? (Assume you have an unlimited number of darts.)