

Junior Circle 1, Problem Set 25

1. Can you restore the missing numbers? The stars and empty squares represent the missing digits.

a)  $*3 + 8 = ***$

b)  $*7* + *8 = **21$

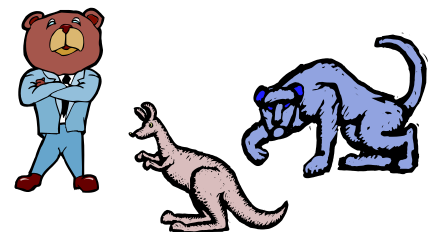
$$\begin{array}{r} \square 6 \\ - 2 \square \\ \hline 7 \quad 5 \end{array}$$

$$\begin{array}{r} 4 \square \\ - \square 8 \\ \hline 1 \quad 8 \end{array}$$

2. David is planning to visit his friend in *Binary Land*. He has a piece of paper where the friend's house number is written. Before stuffing the paper into his pocket, David noticed that the number was odd and greater than 25. Unfortunately, the paper got crumpled in David's pocket, so now he can't see some of the digits. Can you figure out the house number of David's friend?



3. Billy the Bear, Kathy the Kangaroo and Penny the Panther had a race. Before the race started, the spectators made the following predictions on the race's outcome:
- Billy will come first!
  - Penny won't come first!
  - Kathy won't come last!



It turned out that one the predictions was correct and the other two were wrong. In which order did the animals finish the race if there were no ties?

4. Sarah is packing for college. She decides to leave her two extra laptops to her three younger siblings: two sisters and a brother. The siblings decide that they will share Sarah's gift fairly: each sister will get a laptop, and each sister will give the brother \$200. What is the price of Sarah's laptop?

