

4. **Cup cost:** A cup, two saucers and three bowls cost \$38. Two bowls cost as much as one saucer and three cups. If a saucer costs \$3, how much is a cup?
5. **Video Entertainment:** In Nintendo's *The Legend of Zelda™*, Link must travel through many rooms arranged in a coordinate maze to find the silver arrow. From the entry room, he goes right 3 rooms, up 4 rooms, left 5 rooms, down 2 rooms, left 1 room, up 3 rooms, and right 4 rooms to find the chamber that has the silver arrow. If the entry room has coordinates (0, 0) and all the directions are as you view the maze, find the coordinates of the room with the arrow.
6. **Seating:** How many ways can five card players be seated around a circular table?

7. **Photo:** A photo measuring 6 inches by 8 inches is enlarged into a poster. The longer side of the poster is 3 feet long. How long is the shorter side in inches?

8. **Beach:** You are walking down the beach and see two types of animals, turtles and pelicans. When you count heads you get 31. When you count feet you get 104. How many of each animal is there?

9. **Elevator:** An elevator on the tenth floor goes down 9 floors. Then it goes up 19 floors, down 3, and finally up 12. What floor does it end up on?

10. Deductive Logic: Five girls were walking to the park. They were all wearing blouses of different colors. Akiko, Betty, Clara, Dana, and Eve wore blouses that were red, green, blue, white, and yellow (but not in that order). Using the following information, decide what color blouse Clara was wearing.

- A. Clara doesn't own a green blouse.
- B. Dana hates the colors green and yellow
- C. Betty's blouse was either red or blue
- D. Akiko's blouse was neither green nor white
- E. Clara walked between the girl with the yellow blouse and the girl with the blue blouse
- F. Dana's blouse was red