Problem 1:

1 2 5 6 <- 1

5 6 0 1 <- 0

<- 1

10 <- 1

10 5 10 <- 0

10 10 20 <- 1

10 10 20 5 <- 0

Problem 2:

With n = 2...

0.5 1.5 2.5 3.5 3.5 3.25

With n = 3...

0.333333 1 2 3 3.33333 3.5

With n = 4...

0.25 0.75 1.5 2.5 3 3.375

Problem 3:

There were 386 tickets that matched 1 number from the winning ticket.

There were 120 tickets that matched 2 numbers from the winning ticket.

There were 12 tickets that matched 3 numbers from the winning ticket.

There was 1 ticket that matched 4 numbers from the winning ticket.

There was 1 ticket that matched 5 numbers from the winning ticket.