

## Section 7. Unusual Mahjong

This section contains somewhat unusual mahjong mysteries. The reader may encounter either unusual way of playing the deal, or unusual rules, or unspecified conditions etc.

### Contents

[7-1. Lost Bet](#)

[7-2. Santa's Sock](#)

[7-3. Christmas Wind](#)

[7-4. 32nd of December](#)

[7-5. Dr. Watson's Mahjong Dreams](#)

[7-6. Four Cherished Words](#)

[7-7. Mrs. Hudson in the Spotlight](#)

[Hints](#)

[Solutions](#)

# Mysteries

## 7-1. Lost Bet

Today's mystery is not a mahjong problem per se, but instead, it relates to "Math-Jong" – math around the game of mahjong. The date of our story is March 8th. Sherlock Holmes, Dr. Watson, Mrs. Hudson and Inspector Lestrade are sitting at 221B Baker Street playing mahjong. They are arguing about what it means to be a high-level tournament player.

"I think that a high-level player wins each and every deal," started Lestrade.

"And I think that is not enough to win. It is also important to be able to play against a specific player. It's not a secret that in certain situations one can pass on declaring mahjong on one player's discard in favour of winning from a specific player, or from the wall," replied Holmes.

"And what about the case where one player's game points will be equal to another player's game points?" asked Mrs. Hudson. "This situation requires extremely fine planning."

"Well, it's just a coincidence," Dr. Watson joined the conversation. "I'll bet that if at the end of today's game we have the same score with you, dear Mrs. Hudson, I'll have to do something for you, like for example, make dinner tonight."

"Good idea, my dear Watson! Watson, but why only tonight? Why not the whole week? Say, I would be ready to clean house for the whole week, if my score and Mrs. Hudson's score are equal," said Holmes.

"Well, and I'm ready to deliver products to 221B Baker Street for the whole week," proclaimed Lestrade.

So, the game starts. With just one more deal to go, the score is as follows: Mrs. Hudson is in the 3rd position with exactly zero game points. All the gentlemen players have **different** game points.

"How ever can I manage to win the bet?" thought Mrs. Hudson. "My hand is not good, so, even if I win the deal I can get even with only one gentleman's score."

In a while, Mrs. Hudson hears "Hu!". "I lost," she thinks. However ...

After counting it turned out that the game points of all four players became ... equal to 0!

"Could you imagine that?" said Watson.

"It's elementary, my dear Watson!" Holmes answered. "Well, gentlemen, great deeds await us! For the whole week! This is a remarkable gift for Mrs. Hudson on the 8th of March!"

"And you, Mrs. Hudson, you are not so simple as it may appear," grumbled Inspector Lestrade.

## Questions

Please, explain what has happened in the last deal.

**Question 1:** How many game points did the various players have before mahjong was declared?

**Question 2:** Who declared mahjong?

**Question 3:** What is the mahjong hand's value?

**Question 4:** Whom to blame for the lost bet?

[Hint](#)

[Solution](#)



## 7-2. Santa's Sock

On Christmas eve, it was snowing. All four of our friends, Sherlock Holmes, Dr. Watson, Mrs. Hudson and Inspector Lestrade, are sitting at the mahjong table at 221B Baker Street dreaming away...

"Tonight, I would like to get something... something extraordinary," said Mrs. Hudson.

"We might play by some exotic rules," proposed Lestrade.

"And I think that everybody has a Christmas present tonight. But Santa Claus, himself, where does he get his own present?" asked Dr. Watson.

"I propose to combine exotic rules play and Santa's present," said Holmes. "For instance, when a tile is played in some extraordinary fashion, then it should go into Santa's sock!"

"I like that idea! For instance, Flowers go to the sock!"

"And, for example, if a player takes a winning tile from the wall for mahjong, then the player **does not declare** this mahjong, but puts this tile into the sock. Thus, a gift for Santa Claus will be undeclared mahjong. Only, it is important that the move after such a mahjong be transferred to another player," Holmes continued.

"Let's play by such unusual rules!" Lestrade proclaimed.

The game starts

So be it, the wall is built, the tiles are dealt. East (Holmes) should replace a Flower, but instead of placing it nearby, he puts it directly into Santa's sock. The tile is replaced.

"Incredible! I have mahjong! My winning tile goes to Santa's sock," said Holmes. "Now South moves."

**Note:** Deep analysis of the Rules shows that East **cannot have** the winning tile, so let's assume that the tile after the Flower replacement is to be counted as the winning tile).

South, after Flower replacement, also got mahjong. The winning tile went to Santa's sock. The same happened to West and North. After the first round, **nothing** has changed. Eventually, **all** wall tiles come to be in Santa's sock.

**Question:** Please, re-construct all hands and all tiles from the wall which went to Santa's sock.

[Hint](#)

[Solution](#)



### 7-3. Christmas Wind

On Christmas Eve our four, Holmes, Dr. Watson, Mrs. Hudson and Inspector Lestrade, played mahjong. When few tiles remained in the wall, Watson asked, "Would you please tell me what is the Prevalent Wind right now?"

As he spoke, the window shutters suddenly opened and wind filled the room.

"Christmas Wind!" Lestrade joked.

When the window was shut, and everybody had calmed down, they found out that **all** tiles in the remaining wall had turned over face upward.

"And now, whose turn is it to move?" asked Mrs. Hudson.

"I don't remember," Holmes answered. "And we also don't remember," continued Watson and Lestrade.

"It is rather strange," Mrs. Hudson told. "**Any** of the remaining tiles fit my hand to make mahjong!"

"And to my hand also, and to mine," echoed the gentlemen.

#### Questions

Please, provide all hands and tiles left in the wall under two (independent from each other) conditions:

**Question 1:** Highest possible number of tiles left in the wall with **different** hand types.

**Question 2:** Highest possible number of tiles left in the wall with **the same** hand types.

**Note:** Here by "type" we mean the combination of hand constructing elements (Chow, Pung, Pair, Knitting sequence etc.).

[Hint](#)

[Solution](#)



## 7-4. 32nd of December

**Important notice:** Please note that points for any fan could be scored only for the winning hand. Though let's assume that fan points calculation is also possible for not-won-yet hand, just for the sake of solving the proposed problem.

New Year's Eve. Fun flowed, the chimes struck twelve, and after a glass of champagne, Inspector Lestrade offered, "Why not play mahjong right now, on January 1st?" "And I'm still inclined to hope that before we see off an old year and go to bed, the New Year won't come! So, now is still **December**, say... 32nd of December!" laughed Mrs. Hudson. "A very intriguing turn," said Holmes. "So, let's play mahjong."

The first deal ended in a draw when Watson suddenly said, "Look, the neighbour on my right (it was Lestrade) melded **twelve** tiles in the same suit, and, most interesting, they contain a 32-point fan. Quite a mystical connection, the numbers 32 and 12. Ah, no wonder," a wild guess lit up his face, "that's because now the 32nd of the 12th month, **32nd of December.**" "But what is interesting," he continued, "is the fact that my hand was waiting for all the tiles melded by my right-hand neighbour."

**Question 1:** Please, provide a version of Watson's and Lestrade's hands.

When the second deal ended in a draw, Lestrade said, "That's really a mystery, but the neighbour on my right, Holmes, melded **twelve** tiles in the same suit, containing a 32-point fan, and my hand was waiting on **all** these melded tiles, exactly as in the first deal."

**Question 2:** Please, provide the hands of Holmes and Lestrade, with the constraint that all tiles in the waiting hand are **different**.

As you may guess, during the third deal, the situation repeated. Holmes' hand was waiting for twelve melded tiles of the **same suit** of Mrs. Hudson (the neighbour on Holmes' right).

**Question 3:** Please, provide the hands of Holmes and Mrs. Hudson under the condition that Holmes melded a Pung of Dragons (i.e., he has exactly **ten** tiles in his hand).

The fourth deal cut off all conceivable scenarios. In the end, **each** player melded exactly **twelve one-suit** tiles containing a 32-point fan. And, each of the players' hand was waiting for **eight** (not twelve!) tiles of their right neighbour's hands.

**Question 4:** Please, provide hands of all players.

[Hint](#)  
[Solution](#)



## 7-5. Dr. Watson's Mahjong Dreams

Sherlock Holmes and Dr. Watson returned to the house on 221B Baker Street, after a sleepless night spent in ambush while investigating a case. Surprisingly, Inspector Lestrade and Wan Dongtiao were waiting for them to play mahjong.

"We are here because we agreed to play on Sunday at 10 a.m.," said Mr. Lestrade.

"Wow, it's already Sunday," murmured Dr. Watson with very sleepy eyes.

So the game started, the dice were thrown, the wall was broken, and the tiles were dealt. Before East prepared to shed his first discard, however, something totally unexpected happened, Dr. Watson fell asleep.

"What should we do now? Mrs. Hudson is out. Can we play with just three?" asked Mr. Lestrade, looking at snoring Dr. Watson.

"I propose we play as much as we can, and then we'll decide," said Mr. Holmes.

So the game continued. Players played their tiles, making declarations when after "Hu", Dr. Watson woke up.

"Gentlemen, I had very interesting dreams. The last one resembled this "Hu" declaration. Well, I see the deal has now finished."

**Question:** Provided Dr. Watson did *not* play while sleeping, and the deal continued for as long as it was possible without disturbing Dr. Watson, please tell how many dreams Dr. Watson saw during his sleep, where each dream corresponds to exactly one successful declaration: "Flower", "Chow", "Pung", "Kong", "Hu". For clarity, there were no false "Hu" declarations.

[Hint](#)  
[Solution](#)



## 7-6. Four Cherished Words

Sherlock Holmes, Dr. Watson, Inspector Lestrade and Mrs. Hudson decided to play mahjong. When the three gentlemen entered the room, they found Mrs. Hudson doing something very strange. She threw two dice twice, and then counted the tiles, and then pulled some of them out from the wall, turned them so that she could look at them, sighed and returned them back into the wall. "Still nothing!" she sighed.

"Nothing what?" asked Holmes.

"It was Wan Dongtiao. He said that he would write on the four tiles of the White Dragon four cherished words for me. Then he placed the tiles into the wall and said, "It does not matter

how many times the wall will be broken, East will never start with these four tiles, the tiles with the magic words."

"So I'm trying to find these tiles," continued Mrs. Hudson. "I have already thrown the dice probably a hundred times."

"In that case, you will never find them, according to Wan Dongtiao's words. And why not just try to take down the wall, tile-by-tile, in order to find these four tiles," assumed Watson.

"It is not necessary to disassemble the wall. It is elementary," said Holmes. "And here are those four tiles" he pulled out the four tiles from the wall and handed them to Mrs. Hudson.

"Mahjong forever, Mrs. Hudson!" whispered Mrs. Hudson reading the secret writing on the four tiles.

**Question:** Please, locate four such tiles which cannot, under any circumstances, be in East's first four tiles taken when breaking the wall.

[Hint](#)

[Solution](#)



## 7-7. Mrs. Hudson in the Spotlight

Mrs. Hudson's successful play at the London MCR Championship drew everyone's attention so that even the correspondent of the newspaper "Mahjong News" decided to watch her play. Here is an abstract from the article describing a particular deal, 'Mrs. Hudson managed quite quickly to reach a waiting hand. But the most amazing thing is the fact that after each of her moves after getting to the wait (for valid 8+ pts. hand) and until she declared "Hu!" on a discarded tile, Mrs. Hudson's hand changed and the hand's value increased.'

**Question:** Please, provide the chain of **a maximal** length of Mrs. Hudson's hands under the following conditions:

- the hand value is counted specifically on a discarded tile;
- the hand value with multiple waits is counted by its minimum value;
- at least one tile in the hand (except for flower tiles) must be changed after each move.

[Hint](#)

[Solution](#)



# Hints

## 7-1. Lost Bet

**Question 2:** More than one “Hu” has been declared.

**Question 3:** Beside normal “Hu” also false “Hu” has been declared.

[Solution](#)



## 7-2. Santa's Sock

Please, find the hands waiting for Suit tiles and a hand waiting for honor tiles.

[Solution](#)



## 7-3. Christmas Wind

**Question 1:** Since hand types should be different for all four hands that leaves only one set which will be formed by waiting tiles from the open wall.

**Question 2:** What hand structure is always waiting for three different tiles?

[Solution](#)



## 7-4. 32nd of December

Please, try to identify which 32-point fans can be used for solving the mystery.

[Solution](#)



## 7-5. Dr. Watson's Mahjong Dreams

Please find the way to not let Dr. Watson's discard remain unclaimed. The other point is to determine which kind of kongs can be used.

[Solution](#)



## 7-6. Four Cherished Words

Please, build the wall and do the tests.

[Solution](#)



## 7-7. Mrs. Hudson in the Spotlight

Please consider a list of technical actions carried out upon Mrs. Hudson's waiting hand for the hand still to be waiting while changed.

[Solution](#)



# Solutions

## 7-1. Lost Bet

**Answer 1.** Before mahjong was declared, the players had:

- Lestrade – 58 pts.;
- Watson – 18 pts.;
- Hudson – 0 pts.;
- Sherlock – -76 pts.

**Answer 2.** Mahjong was declared by three players – Watson, Lestrade, and Sherlock.

**Answer 3.** Dr. Watson declared not-enough-points mahjong, he has to pay 10 points in favor of each player, so he loses 30 points. Lestrade was in such a hurry that he confused the winning tile for his mahjong with the tile in another suit, and he declared a not-legal-structured mahjong. He has to pay 20 points in favor of each of the players losing 60 points. Holmes declared 22 points mahjong from Mrs. Hudson.

**Answer 4.** Let's calculate how many points the players will have after the last deal:

- Lestrade =  $58 - 60 + 10 - 8 = 0$  pts.;
- Watson =  $18 + 20 - 30 - 8 = 0$  pts.;
- Hudson =  $0 + 20 + 10 - 8 - 22 = 0$  pts.;
- Sherlock =  $-76 + 20 + 10 + 24 + 22 = 0$  pts.

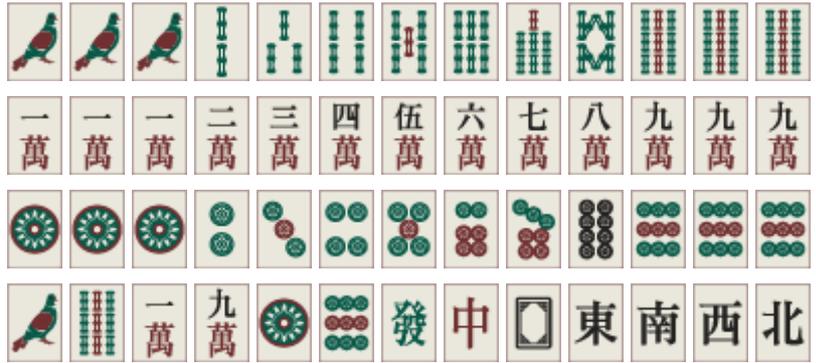
Whom to blame for the lost bet? Probably, Watson and Lestrade for declaring false "Hu".

P.S. There is another solution available with starting points 80, 40, 0, -120 with two false "Hu" and self-drawn mahjong for 22 points.



### 7-2. Santa's Sock

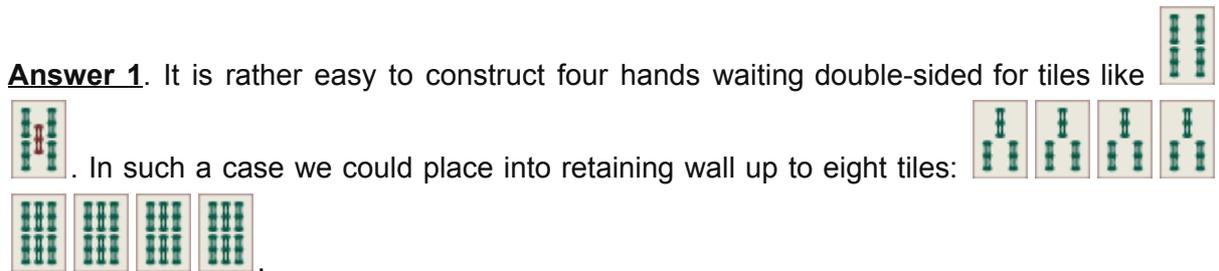
This problem is not as difficult as it might be thought at first glance. Besides eight Flower tiles, we need to cope with 84 wall tiles making it  $84/4=21$  tiles for each player's hand. Such a vast wait easily could be arranged with three "Nine Gates" waiting hands and one "Thirteen Orphans" waiting hand:



In the wall / sock there are  $7*3*3=63$  "simple" suit tiles and  $7*3=21$  Honor tiles totaling 84 tiles.



### 7-3. Christmas Wind



Since the only constraint is to fit one Chow, the other two tiles might be a Pair and three sets: Chow-Chow-Chow, Chow-Chow-Pung, Chow-Pung-Pung, Pung-Pung-Pung.

**Enhancement.** There is a way to increase the number of tiles from eight to nine. We have



**Answer 2.** All four hands have a structure "Greater Honors and Knitted Tiles" with Knitted



**Note:** Unfortunately, an interesting idea with four “Thirteen Orphans” waiting hands does not work since there would be no waiting tiles left to be placed into the wall.



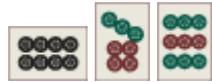
7-4. 32nd of December

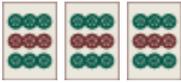
Before we start let’s take a look at possible 32-points fans. There are only three such fans:

- fan #16 Four Pure Shifted Chows;
- fan #17 Three Kongs;
- fan #18. All Terminals and Honors.

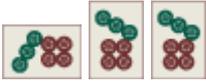
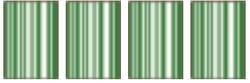
Please note that fan #18 is applicable only for the whole hand, so no use for our purpose. A fan #16 is available at two sub-fan versions: with step 1 and step 2. Let’s also note that all three options (fan #16 step 1, fan #16 step 2 and fan #17) ideally meet requirements for the problem having exactly twelve tiles: four sets in fan #16 and three sets in fan #17.

**Answer 1.** A plenty of options might be offered for a solution, let’s start with the toughest one – Four Pure Shifted Chows, step 2.

Lestrade (twelve melded tiles): melded – ,  
, concealed – .

Watson (thirteen tiles in hand): concealed – ,  
, well-known “Nine Gates” wait (not fan but wait!).

**Answer 2.** Let’s assume the Holmes has three melded kongs in one suit with the step 3 and Lestrade is waiting for “Greater Honors and Knitted Tiles”.

Holmes (twelve melded tiles): melded – ,  
, concealed – .

Lestrade (thirteen tiles in hand): concealed – ,  
.

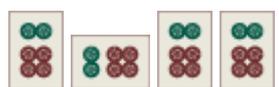
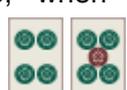
**Answer 3.** Let’s assume that Mrs. Hudson has melded Four Pure Shifted Chows, step 1.

Mrs. Hudson (twelve melded tiles): melded – , concealed – .

Holmes (three melded tiles and ten tiles in hand): melded – , concealed – .

Please, look at Holmes' hand, what is this? This is "Eight Gates" the middle brother of "Nine Gates". Having structure 311113 such one-suit hand is waiting for all tiles in the range plus two outside the range, one from both sides.

**Answer 4.** One possible solution is that each player has three melded kongs, two of them are in one suit, numbers are shifted with step 3. This gives only three melded sets, the rest in hand is some pair and two one-suit tile waiting double-sided for chow for tiles in neighbour's one-suited kongs.

For instance, when Holmes has melded , , Lestrade has  in hand. We will not show all four hands here.



## 7-5. Dr. Watson's Mahjong Dreams

To start with, Dr. Watson can seat at any wind except East, let's assume it is North. The key issue to solve for continuing deal is to not let West's discard remain unclaimed, otherwise, the game will stall. So, every West's discard must be punged or konged by East or South. East can claim only pungs and kongs, while South and West can declare pungs, kongs and chow. "Hu" can be declared by any of the three players except North. Flowers can be declared by everybody except North, and to maximize the number of calls, none of flowers should be declared during the flowers replacement phase (right after the dealing of the tiles).

One more crucial point about kongs: concealed or melded kongs take only one declaration, while a promoted kong takes two declarations: pung, and then kong. In fact, this process requires two turns due to a rule from the "Green Book" (see p. 3.6.8): "You may not kong in the same turn as one in which you have melded a chow or a pung." It is allowed, however, to declare a second kong after declaring a first kong in the same turn.

So, the chain of events may look like (numbers in brackets show the total number of declarations = Watson's dreams):

- dealing tiles;

- no Flowers replaced;
- Watson falls asleep;
- East discards;
- South declares Pung then discards (1);
- West declares Pung then discards (2);
- East declares Pung then discards (3);
- South declares Pung then discards (4);
- West declares Pung then discards (5);
- East declares Pung then discards (6);
- South declares Pung then discards (7);
- West declares Pung then discards (8);
- East declares Pung then discards (9);
- South declares Pung then discards (10);
- West declares Pung then discards (11);
- East declares Melded Kong (12);
- East declares Promoted Kong, which repeats three times (13, 14, 15);
- South takes a tile from the wall and declares Flower, it repeats four times (16, 17, 18, 19);
- South takes a tile from the wall and declares Promoted Kong, which repeats four times (20, 21, 22, 23);
- West takes a tile from the wall and declares Flower, it repeats four times (24, 25, 26, 27);
- West takes a tile from the wall and declares Promoted Kong, it repeats four times (28, 29, 30, 31);
- West discards, East declares "Hu" (32);
- Watson wakes up.

Altogether, Watson has seen as many as 32 mahjong dreams.

P.S. If unsuccessful declarations are to be counted, then there might be the possibility of chow-declarations being bumped by pungs, and multiple "Hu".



## 7-6. Four Cherished Words

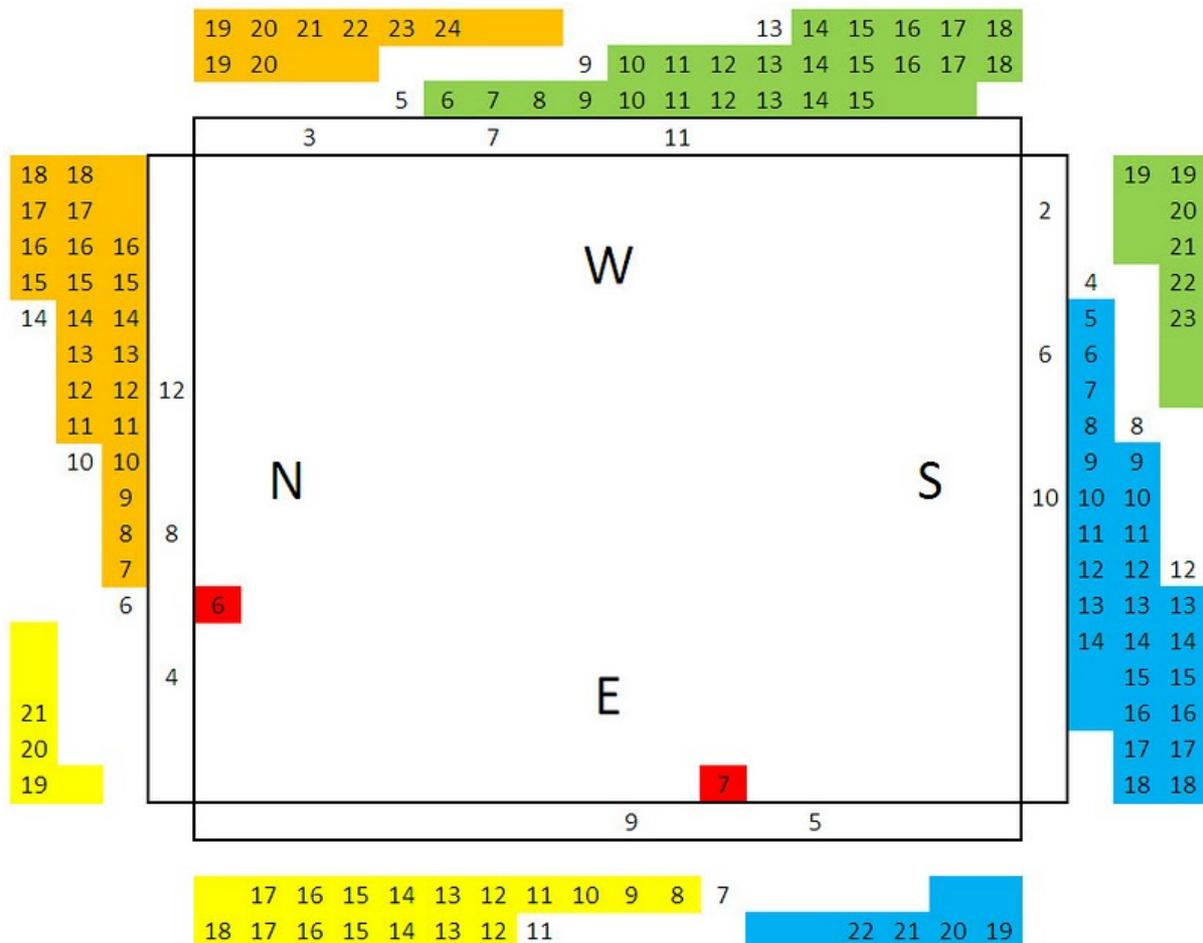
The quickest way to solve this math-jong mystery is to build a wall and turn face up any tiles which could be taken by East in his first turn. That should be done for all possible combinations of dice count. Let's look at the visual interpretation of all possibilities.

In the diagram below starting dice count from the first throw is shown at white-board vertical or horizon stripe adjacent to white square 18x18:

- 5 and 9 for East wall;
- 2, 6 and 10 for South wall;
- 3, 7 and 11 for West wall;
- 4, 8 and 12 for North wall.

Dice count from the second throw in the range from 2 to 12 is added to the respective dice count from the first throw. Summarizing count is marked in colours: a different colour for each wind.

Looking at the whole diagram one can see only two two-tile stacks: East's 7th and North's 6th, which cannot be taken by East under any possible combinations of dice count. Those four tiles are White Dragon tiles on which are written the four cherished words, "Mahjong Forever, Mrs. Hudson!"



### 7-7. Mrs. Hudson in the Spotlight

Let's consider a list of technical actions carried out upon Mrs. Hudson's waiting hand for the hand still to be waiting while changed (part of hand except for flower tiles) after a move is finished:

- drawing one tile from the wall, discarding the other tile;
- declaring any kind of kong, combined with drawing a tile from the wall;
- declaring Flower, combined with drawing a tile from the wall;
- declaring pung;

- declaring chow.

For draw-and-discard action hand value may be increased by getting points for new scoring elements like wait, voided suit, hand as-a-whole change (Outside Hand, Reversible Tiles), etc. Flower declaration without change of hand does not work by mystery conditions, hence, we need draw-and-discard action tricks. Kong declaration is ideal for hand value increase due to acquiring additional points from the number of kongs in hand. Pung declaration may be ineffective. Chow declaration is always ineffective.

The general plan for the chain of waiting hands consist of following parts:

- 3-pung hand is converted to 4-pung hand;
- four kong declarations;
- eight flower declarations;
- tricks around voided suit, Outside Hand and Reversible Tiles.

How long can this chain be? Out of 144 tiles,  $13 \times 4 = 52$  tiles always must be placed in 4 players' hands. Mrs. Hudson's hand should have 4 extra tiles in kongs and 8 flowers. Thus,  $144 - 52 - 4 - 8 = 80$  tiles must inevitably go to discard zone. On a rough count, a chain length can be limited by  $80 / 4 = 20$ . Fortunately, any single declaration by other players provides one additional wall tile, altogether up to  $4 \times 3 = 12$  tiles may be added to pool increasing chain length to the value of 23. The other possibility to increase length is to neglect hand efficiency issue – pick tile for the wait so that hand value increases while the number of available tiles may be lessen.

Here is a chain of 27 (!) hands (on the edge of efficiency, increased efficiency when three other players declare chows hence eliminating critical tiles will lessen chain for 4-5 hands) based on pungs / kongs, flower combos and tricks about pattern groups. Hand value is calculated on discard by mystery conditions. For any of Mrs. Hudson's waiting hands, we will count discarded, melded, standing and wall tiles after Mrs. Hudson's discard, describing if necessary moves of other players before next her move. A round starts with West and follows North, East, and South.

1. Mrs. Hudson is sitting on South and takes first East discard of , "Pung!".

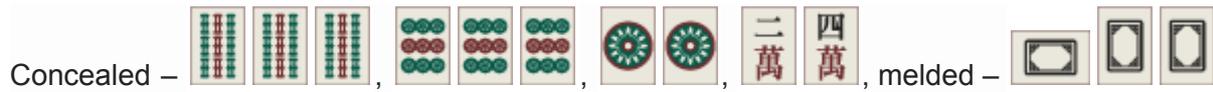
Concealed – , , , , melded – .

Hand value =  $2 \times 1$  (Pung of Terminals) + 2 (Double Pung) + 2 (Two Concealed Pungs) + 2 (Dragon Pung) = 8 points.

Melded = 3, standing = 13 (E) + 10 (S) + 13 (W) + 13 (N) = 49, discarded = 1, wall = 91 tiles.

2. Simple draw-and-discard round, South creates one point for wait after taking from the wall

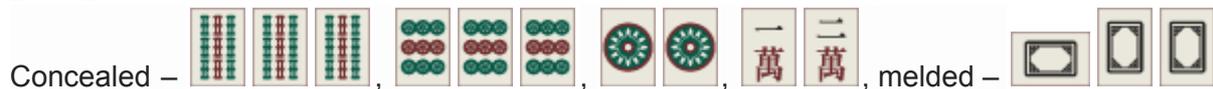
 and discarding .



Hand value =  $2 \times 1 + 2 + 2 + 2 + 1$  (Closed Wait) = 9 points.

Melded = 3, standing =  $13 + 10 + 13 + 13 = 49$ , discarded = 5, wall = 87 tiles.

3. Simple draw-and-discard round, all three other players discard . South moves wait, getting Outside Hand after taking from the wall  and discarding .



Hand value =  $2 \times 1 + 2 + 2 + 2 + 4$  (Outside Hand) + 1 (Edge Wait) = 13 points.

Melded = 3, standing =  $13 + 10 + 13 + 13 = 49$ , discarded = 9, wall = 83 tiles.

4. South declares pung on West's discard of , discarding useless .   
 Concealed – , , , melded – ,   
 

Hand value =  $3 \times 1 + 2 + 2 + 2 + 6$  (All Pungs) + 1 (Single Wait) = 16 points.

Melded = 6, standing =  $13 + 7 + 13 + 13 = 46$ , discarded = 10, wall = 82 tiles.

5. Simple draw-and-discard round. First trick with Flower. South takes Flower tile from the wall, declares Flower, takes another Character tile, , and discards previous Character tile, .

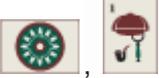


Hand value =  $3 \times 1 + 2 + 2 + 2 + 6 + 1 + 1$  (Flower) = 17 points.

Melded = 7 (including 1 Flower), standing =  $13 + 7 + 13 + 13 = 46$ , discarded = 14, wall = 77 tiles.

6. East declares pung on South's discard of . South creates one point for Voided Suit

after taking from the wall  and discarding .

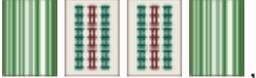
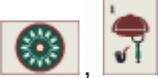
Concealed – , , , melded – , , .

Hand value =  $3 \times 1 + 2 + 2 + 2 + 6 + 1 + 1$  (One Voided Suit) + 1 = 18 points.

Melded = 10, standing =  $10 + 7 + 13 + 13 = 43$ , discarded = 16, wall = 75 tiles.

7. East declares pung on South's discard of . South takes from the wall ,

concealed kong, takes as replacement tile  and discards .

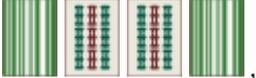
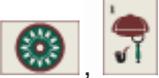
Concealed – , , , melded – , , .

Hand value =  $3 \times 1 + 2 + 2 + 2 + 6 + 1 + 2$  (Concealed Kong) + 1 = 19 points.

Melded = 17 (added pung and 4 tiles in concealed kong), standing =  $7 + 4 + 13 + 13 = 37$ , discarded = 18, wall = 72 tiles.

8. East declares pung on South's discard of . South creates one point for Voided Suit

after taking from the wall  and discarding .

Concealed – , , , melded – , , .

Hand value =  $3 \times 1 + 2 + 2 + 2 + 6 + 1 + 2 + 1$  (One Voided Suit) + 1 = 20 points.

Melded = 20, standing =  $4 + 4 + 13 + 13 = 34$ , discarded = 20, wall = 70 tiles.

9. South declares Melded Kong on West's discard of , takes as replacement tile 

and discards .



Hand value =  $3 \times 1 + 2 + 2 + 6$  (Melded and Concealed Kong) +  $6 + 1 + 1 = 21$  points.

Melded = 24 (added 4 tiles in melded kong), standing =  $4 + 1 + 13 + 13 = 31$ , discarded = 21, wall = 68 tiles.

10. East declares pung on South's discard of . South creates one point for Voided Suit after taking from the wall  and discarding .



Hand value =  $3 \times 1 + 2 + 2 + 6 + 6 + 1 + 1$  (One Voided Suit) +  $1 = 22$  points.

Melded = 27, standing =  $1 + 1 + 13 + 13 = 28$ , discarded = 23, wall = 66 tiles.

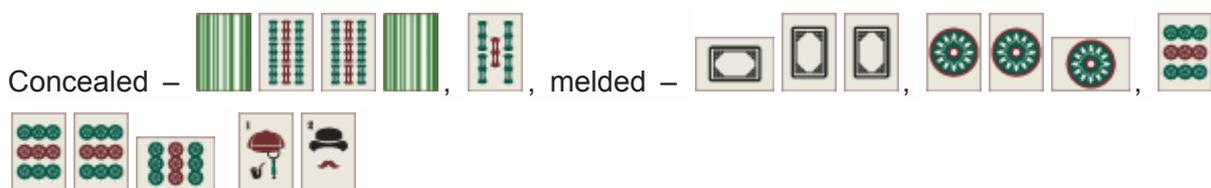
11. North declares pung on South's discard of . South goes for Reversible Tiles after taking from the wall  and discarding .



Hand value =  $3 \times 1 + 2 + 2 + 6 + 6 + 1 + 8$  (Reversible Tiles) +  $1 = 29$  points.

Melded = 30, standing =  $1 + 1 + 13 + 10 = 25$ , discarded = 26, wall = 63 tiles.

12. Simple draw-and-discard round. The second trick with Flower. South declares Flower, takes from the wall  and discards .



Hand value =  $3 \times 1 + 2 + 2 + 6 + 6 + 1 + 8 + 2$  (Flowers) = 30 points.





Melded = 57, standing = 1 + 1 + 4 + 1 = 7, discarded = 65, wall = 15 tiles.

25. Simple draw-and-discard round. South creates one point for Voided Suit after taking from

the wall  and discarding .

Concealed –                      