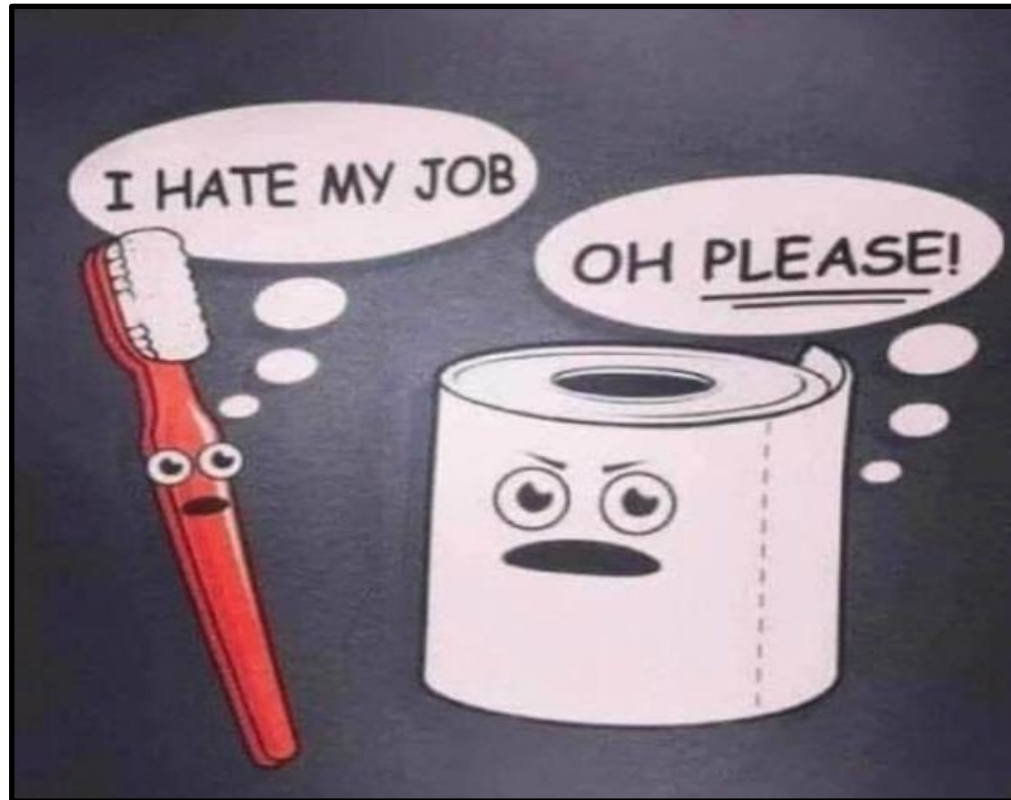


Law of Total Tricks



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Time for a Joke

Two Irish mechanics, Paddy and Sean, are at a US airport trying to re-fuel a new type of jet airplane. As they are reading its manual, they find a warning that says, “Don’t drink the jet fuel!”

Puzzled, they check the jet’s fuel. It smells just like whisky! Being curious, they try a drop. It smells and tastes exactly like whisky! So, they have a pint each, before returning to fueling the plane.

A few hours later, Paddy is at home when suddenly, he feels wind building up in his intestines. The phone rings, and he answers it.

“Are you feeling like you have to pass gas?” Sean asks him.

“Yeah,” says Paddy. “I guess we should’ve drunk that fuel!”

“Well,” says Sean, “let it out real slow. I’m calling from Australia!”

Facts About Fits

1

					
YOU:	4	3	3	3	
PARTNER:	2	3	3	5	
FIT:	6	6	6	8	26
One 8-card fit					

$13+13 = 26$ Cards
 $26/4 = 6.5$ Avg per suit

					
YOU:	4	3	3	3	
PARTNER:	2	3	4	4	
FIT:	6	6	7	7	26
Two 7-card fits					

Rare.

					
YOU:	5	5	2	1	
PARTNER:	1	1	4	7	
FIT:	6	6	6	8	26
One 8-card fit					

Fact #1: You are guaranteed at least two 7-card fits or one 8+ - card fit on every deal.

2

					
LHO:	4	3	3	3	
RHO:	4	3	3	3	
FIT:	8	6	6	6	26
One 8-card fit					

					
YOU:	3	4	3	3	
PARTNER:	2	3	3	5	
FIT:	5	7	7	7	26
Three 7-card fits					

Fact #2: If the opponents have an 8-card fit, there is only one rare mathematical combination where you won't have an 8-card fit as well (above), but then you will have three 7-card fits.

The more skewed the opponents' hands are, the more skewed your hands will be.

More Facts About Fits

And the more skewed both sides' hands are, the more tricks each side can take, producing many sacrifice hands.

3

	♠	♥	♦	♣	
LHO:	4	3	3	3	
RHO:	5	3	3	2	
FIT:	9	6	6	5	26
	One 9-card fit				

Fact #3: If the opponents have a 9-card fit, your side MUST have at least one 8+-card fit (in this case, in clubs).

5

	♠	♥	♦	♣	
LHO:	4	5	2	2	
RHO:	4	3	3	3	
FIT:	8	8	5	5	26
	Two 8-card fits				

Fact #5: If the opponents have two 8-card fits, your side MUST have a 9+-card fit or two 8-card fits also.

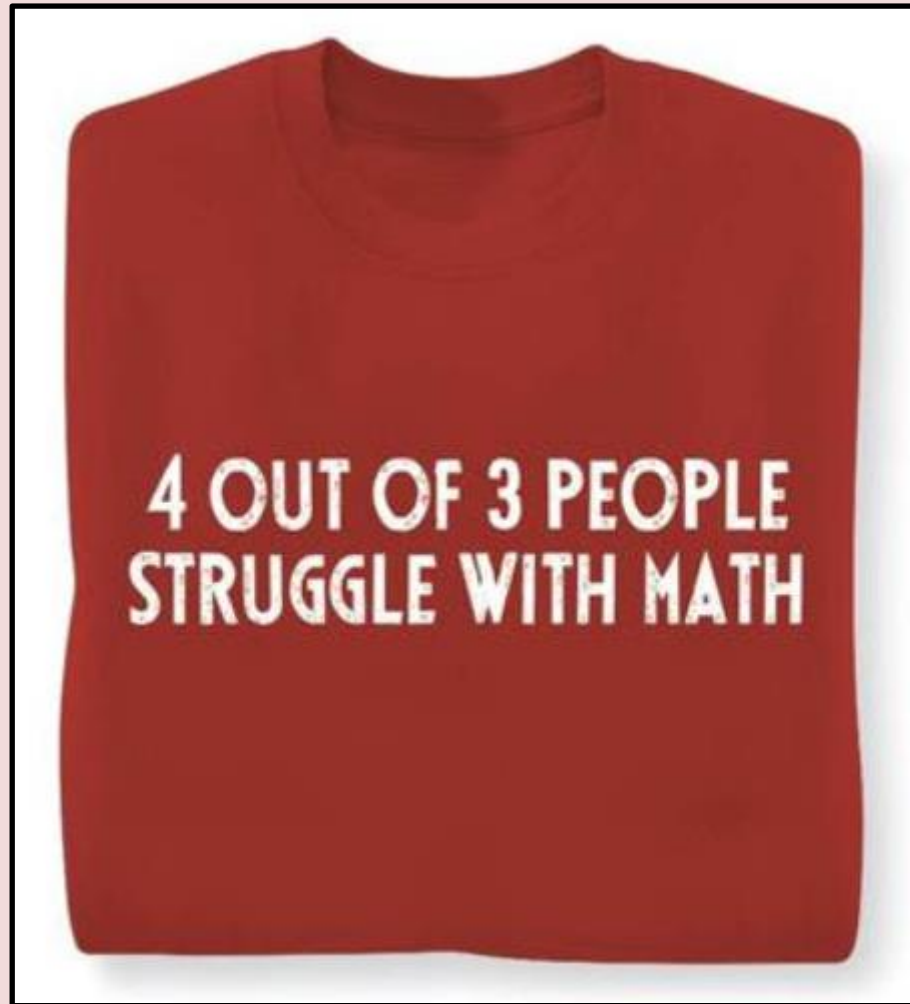
4

	♠	♥	♦	♣	
LHO:	4	3	3	3	
RHO:	6	3	3	1	
FIT:	10	6	6	4	26
	One 10-card fit				

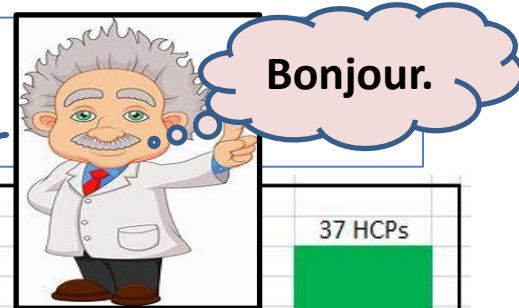
	♠	♥	♦	♣	
LHO:	4	3	3	3	
RHO:	6	2	2	3	
FIT:	10	5	5	6	26
	One 10-card fit				

Fact #4: If the opponents have a 10-card fit, your side MUST have at least one 9+-card fit (higher chart) or two 8-card fits (lower chart).

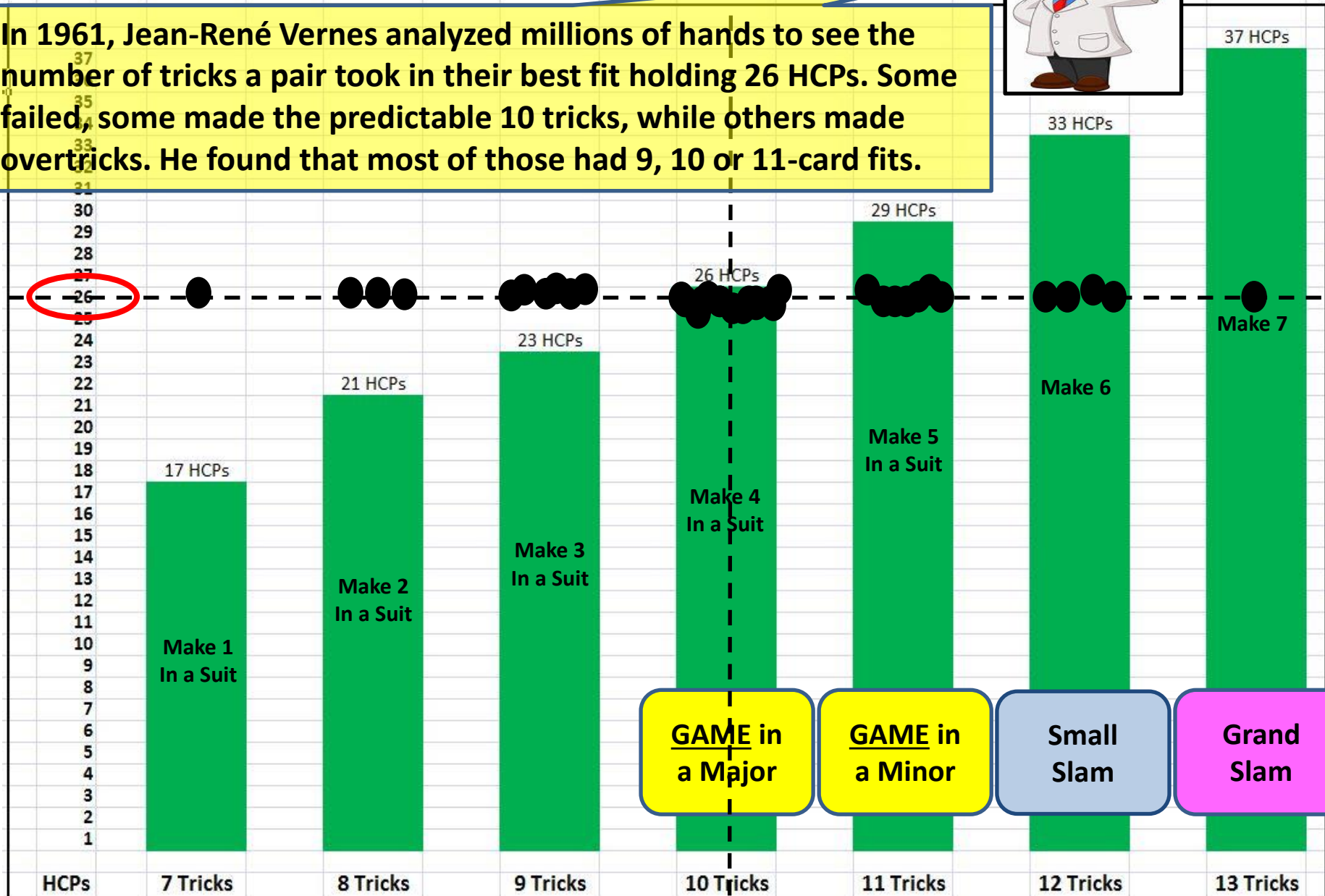
Confused? Don't Worry!



HCP Requirements by Number of Tricks



In 1961, Jean-René Vernes analyzed millions of hands to see the number of tricks a pair took in their best fit holding 26 HCPs. Some failed, some made the predictable 10 tricks, while others made overtricks. He found that most of those had 9, 10 or 11-card fits.



What Jean-René came up with next shocked the bridge world.

The Trick Reservoir



Let's suppose, on a certain hand, the best N/S has is an 8-card fit in ♥'s and the best E/W has is a 9-card fit in ♦'s.

Now imagine a reservoir that is filled with a certain number of tricks that is equal to the total of those two fit lengths (8 ♥'s + 9 ♦'s = 17 tricks).

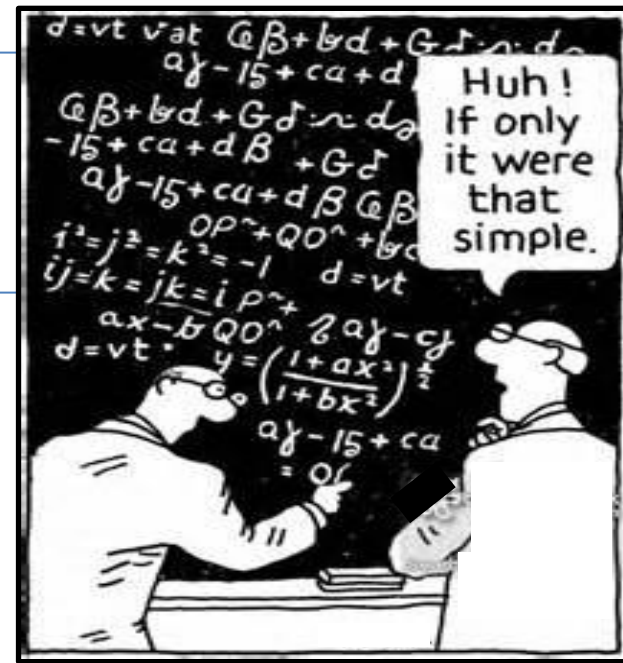
The Law of Total Tricks says that if both N/S and E/W were to get a chance to play in their best fit, they would make a total number of tricks between them that are in the Trick Reservoir (in this case, 17). This means that if N/S can take 10 tricks from the reservoir, E/W should take the rest (7 tricks). If N/S can take 6 tricks from the reservoir, E/W should take 11 tricks, regardless of the HCPs on each side!

So, if you knew how many total tricks there were in the reservoir for a certain deal, and you knew how many tricks the opponents are likely to take (use up), you could calculate how many tricks your side can take (the remainder).

NOW THAT'S POWER!



The Formula



**Total Trump
Your Side Has
In Your Best Fit**



**Total Trump
Their Side Has
In Their Best
Fit**



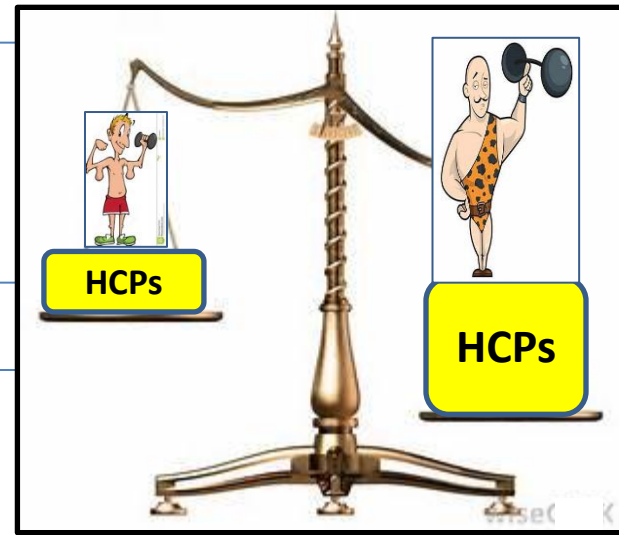
**Total Tricks
Available in
the Trick
Reservoir**

Putting It Into Practice

*Both majors and a good hand

*Weak 2 Bid:
6 ♦'s and about 9 HCPs

*Blackwood – asking for aces



North	East	South	West
2D*	3D*	4D	Dbl*
Pass	4NT*	Pass	5D
Pass	6H	???	

One ace

North
 ♠ 95
 ♥ 632
 ♦ AKJ963
 ♣ Q5

Vul: None
Dir: North

West
 ♠ KJ6
 ♥ A95
 ♦ Q
 ♣ J109862

*Responsive
Double – partner,
 pick a major

East
 ♠ AQ1032
 ♥ KQJ1074
 ♦ ---
 ♣ A3

North can have at most 3 ♥'s, since he opened a weak 2D bid. They must have a 9-card ♥ fit.

Available Tricks = 12 Diamonds + 9 Hearts = 21

Opponents will use 12 of them

South
 ♠ 874
 ♥ 8
 ♦ 1087542
 ♣ K74

**This leaves 9 tricks left for your side.
 Bid 7D!
 Down 4 doubled = -800 vs. -980**



Another Joke

Years ago, the Russian and Polish border was a bit more fluid than it is today. One year, Uri's farm is in Russia and then the next, it may be in Poland. Uri and Kuba met up at the local feed store and have a conversation.

Kuba asks, "How are you doing, Uri?"

"Not bad," Uri replies.

Kuba says, "Did you hear the border moved again?"

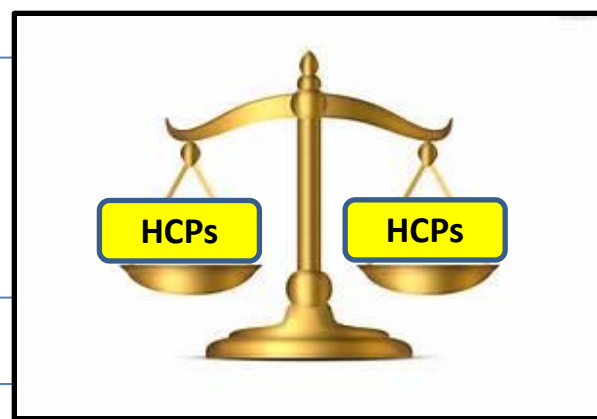
"Oh, really, which way?" Uri asks.

"Well, let's just say we're in Poland this year."

"Oh great," Uri says. "I don't think I could handle another Russian winter."

If the HCPs are evenly split, each side will take as many tricks as they have total trumps

The Corollary



<u>North</u>	<u>East</u>	<u>South</u>	<u>West</u>
2S	3H*	3S**	2H
Pass	???		Pass

Vul: None
Dir: West

West
 ♠ 105
 ♥ AKJ965
 ♦ 83
 ♣ 963

North
 ♠ KJ976
 ♥ 1083
 ♦ AQ
 ♣ Q85

East
 ♠ 84
 ♥ Q42
 ♦ K9542
 ♣ AK2

South
 ♠ AQ32
 ♥ 8
 ♦ J1076
 ♣ J1074

With a 9-card fit, East should bid 4H. Even if doubled, it goes down 1: -100 vs their +140.

N/S have 9 spades and will take 9 tricks. E/W have 9 hearts and will take 9 tricks.

* East bid 3H because they have 9 total hearts.
 ** South bid 3S to make, because of his 4th spade.

Another partscore vs.
partscore sacrifice.

Another Example

EXAMPLE

Hand #93 from the 1958
World Championships

Vul: None
Dir: West

West
♠ QJ1092
♥ 10854
♦ AQ
♣ J4

North
♠ A6
♥ 97
♦ K964
♣ AQ932

East
♠ K87
♥ AQ62
♦ J10852
♣ 6

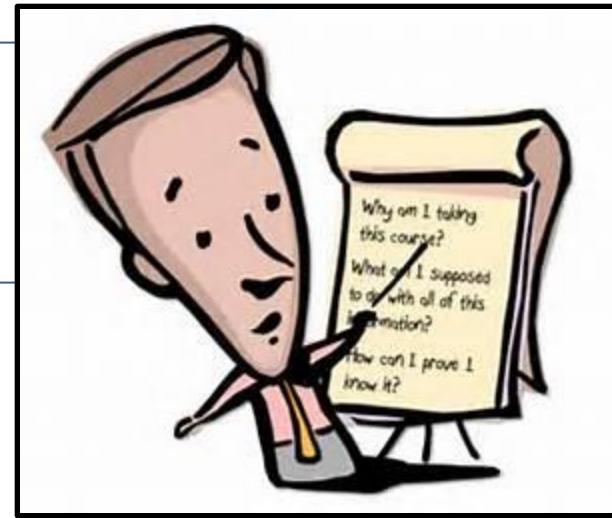
South
♠ 543
♥ KJ3
♦ 73
♣ K10875

N/S, played 4C in
their 10-card fit,
taking 10 tricks
(making).

10 Clubs +
8 Spades =
18 Total
Tricks
Available

At the other table,
E/W, played 2S after
an aggressive 2S
opening bid. They
took 8 tricks in their
8-card fit (making).

In Summary



Modern bidding techniques recognize the validity of this formula and have spawned a myriad of new conventions to communicate a partner's number of trumps:

- **Limit Raises with 3 trumps vs. 4 trumps in the 2/1 Bidding System**
- **Bergen Raises**
- **Mixed Raises**
- **1-2-3 Stop**
- **Jacoby 2NT over a major opening (always with 4⁺ trumps)**
- **Splinters (always with 4⁺ trumps)**
- **Etc.**



Time to Play