

How to Determine
Minimum Number of Wrestlers
for
Multi-Week Round Robins
and
Dual Team Weight Classes

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Example Combinations for 4-man Round Robins

ROUNDS	GROUP-A				GROUP-B				GROUP-C				GROUP-D				GROUP-E			
WEEK-1	A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4	E1	E2	E3	E4
WEEK-2	A1	B1	C1	D1	A2	B2	C2	D2	A3	B3	C3	D3	A4	B4	C4	D4				
WEEK-3	A1	B2	C3	D4	A2	B3	C4	D1	A3	B4	C1	D2	A4	B1	C2	D3				
WEEK-4	A1	B3	C2	D_	opponents begin to face one another in 4th week															

- Assume you have 4 groups of 4 wrestlers for round robin events to get 3 matches each
- If you had 16 wrestlers at the same weight class, you could have three weeks (or rounds) where wrestlers face different opponents (and don't face prior opponents at all)
- By the 4th week, two out of four wrestlers in each group would have faced one another previously
- Of course, a 5th group would mitigate the aforementioned problem
- Some weight classes have far more than 20 wrestlers while others have less than 12
- Note that current NVWF pairing methods adjust pairings later in the season based on "win" records which means the "effective" available pool declines over time unless one is willing to mix advanced kids with novice kids
- If advanced wrestlers were treated separately, the number of available advanced wrestlers would be significantly lower

NVWF Season 2016-17

Grades	grades based on kids born on or after	30-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-80	81-85	86-90	91-95	96-100	101-110	111-120	121-130	131-140	141-150	151-160	161-170	171-180	181-190	191-200	201-220	221-240	241-260	261-280	281-300		
9th	1/1/2003	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	1	4	4	0	0	1	0	0	0	0	0	0	0	0	14	418
8th	9/1/2003	0	0	0	0	1	0	0	0	1	6	8	9	9	19	18	18	10	7	10	4	3	1	0	0	0	0	0	0	124		
7th	9/1/2004	0	0	0	2	1	1	4	6	3	18	21	12	9	20	14	10	6	5	2	0	0	1	0	0	1	0	0	136			
6th	9/1/2005	0	0	1	1	4	6	15	20	13	17	20	8	11	18	8	6	3	2	3	0	1	0	1	0	0	0	0	158			
	614	0	0	0	1	3	6	7	19	26	17	41	51	29	29	59	41	38	23	14	15	5	4	2	1	0	1	0	0	432		
																432																

GRADE	School Begins	30-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-80	81-85	86-90	91-95	96-100	101-110	111-120	121-130	SUM												
5th	9/1/2005	0	0	0	2	4	6	17	19	25	24	27	9	10	9	14	6	7	179	591											
4th	9/1/2006	0	1	0	4	14	24	22	30	29	16	13	12	6	5	3	2	3	184												
3rd	9/1/2007	1	0	6	7	34	44	41	32	22	17	8	4	3	2	3	2	2	228												
	910	1	1	6	13	52	74	80	81	76	57	48	25	19	16	20	10	12	591												

- This was originally constructed to determine potential dual team weight groups
- Also, in general, round robin (RR) 4-man groups yield 3 matches for each wrestler. Based on that, 6 RR groups for a given weight class would give you 6 weeks of

Notional Weight Classes for Middle School Teams

Middle School Team Roster

Bouts @ 1:30 minutes per period plus 90 seconds transition b/w bouts equates to 6.0 minutes per bout ~ 60 minutes for 10 matches

Team Name:					The top weights are used for dual events, The percentage increase to the next weight class is listed just below, The bottom weights show 10% increases from the prior weight.												
Identify if this team is (a) advanced, (b) novice, (c) mixed:					Typical Open Weights						Typical HS Weights						
Wrestler Names			Birth Date	Wt	Skill Level	75	80	85	90	95	100	106	113	120	126	132	138
ROSTER NAMES			(m/yr)		Novice, Good, Excellent		7%	6%	6%	6%	5%	6%	7%	6%	5%	5%	5%
Red or yellow are additional weight classes beyond						10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
						83	88	94	99	105	110	117	124	132	139	145	
Grades 6 - 8 Born b/w 9/1/2005 through 8/31/2008	Wrestler #1					X											
	Wrestler #2						X										
	Wrestler #3							X									
	Wrestler #4								X								
	Wrestler #5									X							
	Wrestler #6										X						
	Wrestler #7											X					
	Wrestler #8												X				
	Wrestler #9													X			
	Wrestler #10														X		
	Wrestler #11															X	
	Wrestler #12																
Extras	Wrestler																
	Wrestler																

- To accommodate a few number of heavier wrestlers, the weight class scale can expand with 10% spreads
- 5th graders can also be included in the lower weight classes based on skill levels

Notional Weight Classes for Elementary School Teams

Elementary School Team Roster - "DIRTY DOZEN"

Bouts @ 1:00 minutes per period plus 90 seconds transition b/w bouts equates to 4.5 minutes per bout ~ 54 minutes overall

Team Name:					The top weights are used for dual events, The percentage increase to the next weight class is listed just below, The bottom weights show 10% increases from the prior weight.											
					Typical Open Weights											
Identify if this team is (a) advanced, (b) novice, (c) mixed:					45	50	55	60	65	70	76	82	88	94	100	106
Wrestler Names							10%	9%	8%	8%	9%	8%	7%	7%	6%	6%
ROSTER							10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Birth Date (m/yr)							55	61	66	72	77	84	90	97	103	110
Skill Level Novice, Good, Excellent																
3rd Grade Max	Wrestler #1					X										
	Wrestler #2						X									
	Wrestler #3							X								
	Wrestler #4								X							
	Wrestler #5									X						
	Wrestler #6										X					
5th Grade Max	Wrestler #7							X								
	Wrestler #8								X							
	Wrestler #9									X						
	Wrestler #10										X					
	Wrestler #11											X				
	Wrestler #12												X			
Extras	Wrestler															
	Wrestler															

- To accommodate a few number of heavier wrestlers, the weight class scale can expand with 10% spreads
- 3rd graders can be placed in either the lower or upper group depending on their skill levels