ATLAS Masterclass-out-of-the-box **Data Tally Sheet** **Data set 3**

Masterclass	ATLAS ID Nos.		Event Type (check one)				Calculated	Rounded
Event No.	Run	Event	Z	W - elec	W - muon	Zoo	Mass	Z Mass
81	186965	203301033					96.1687168	
82	186965	204537154					72.7091006	
83	187014	28180940					91.3470502	
84	187014	39951217					93.6644194	
85	187014	51911226					5.16563728	
86	187014	83653681					70.2099308	
87	187014	84888418					90.4709365	
88	187014	90855984					92.3307958	
89	187014	108715825					80.468661	
90	187196	7405044					109.148379	
91	187196	16055708					88.568135	
92	187196	32206239					90.9601675	
93	187196	33505106					93.3911139	
94	187196	45067419					95.2510271	
95	187196	46792008					74.0252382	
96	187219	866827					94.2169396	
97	187219	72074336					56.199753	
98	187219	74003478					110.720586	
99	187219	109814371					53.2203563	
100	187453	6831674					63.0422217	
101	187453	36183537					92.3947707	
102	187457	37361454					88.3559123	
103	187552	52571367					52.7366978	
104	187763	15411614					91.2212413	
105	187763	34903486					71.2491261	
106	187763	43522268					92.6857788	
107	187763	62547823					74.4347757	
108	187811	69767356					60.8320837	
109	187811	71013977					93.8522786	
110	187812	4379781					80.5981271	
111	187812	8369181					87.8934553	
112	187812	14074881					89.465793	
113	187812	18880861					59.9412967	
114	187812	31122927					92.9032581	
115	187815	2190438					38.2363521	
116	187815	27908163					57.7821532	
117	187815	39437516					65.9563662	
118	187815	44100912					55.4686414	
119	187815	49445622					92.4536857	
120	187815	58627198					70.0059665	

Count the total number of W-electron candidates and the total number of W-muon candidates.

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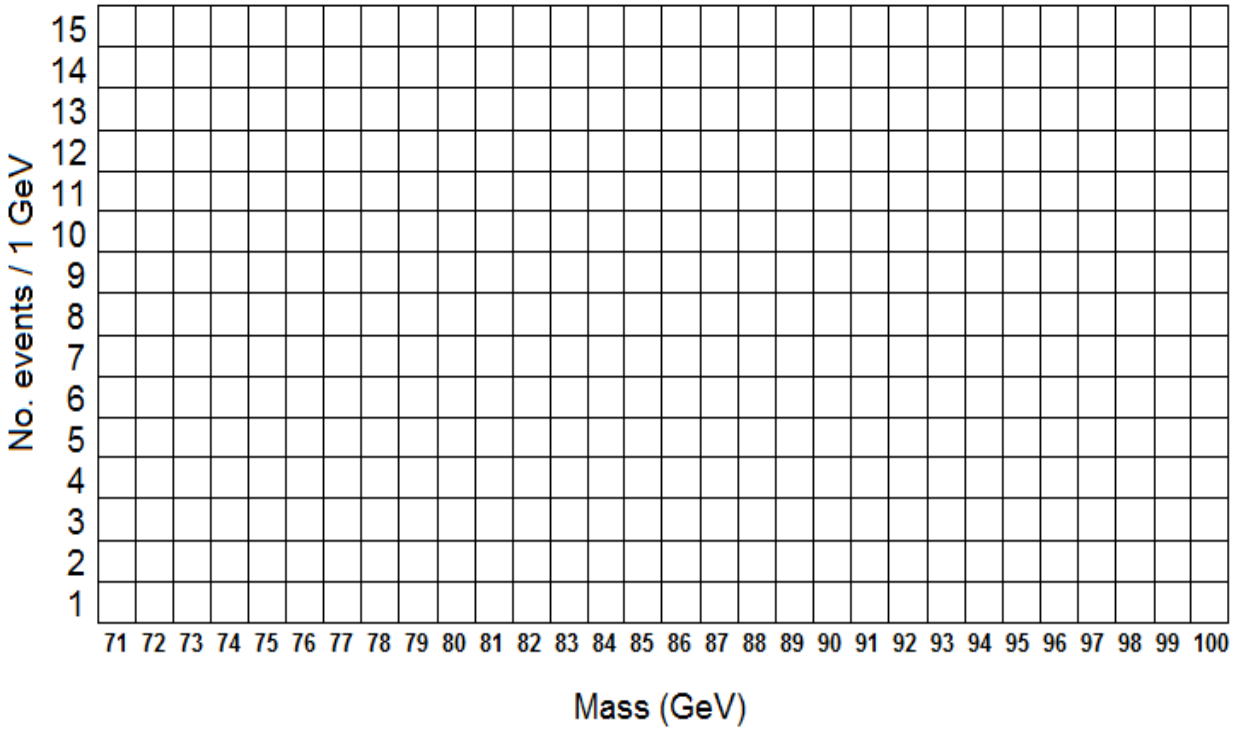
Calculate electron-to-muon ratio:

No. e	No. μ	e/μ

Contribute your numbers of e and μ to group totals.

Your Z mass plot:



Place an X in the appropriate mass bin for each event. Start from the bottom so that the vertical axis represents the number of events in that bin.

Contribute the total number of events in each bin to the group mass plot.