







## WORKSHEET #6 - SEGMENTED SCALES

### Travel Trailers and Tow Vehicles

INSTRUCTIONS	
Position Tow Vehicle and Travel Trailer so that axles are centered on separate scale segments. Weight data will be collected with WDH disconnected and connected. All weights recorded in pounds (lbs).	
TOW VEHICLE ONLY WEIGHT	
Enter Steer Axle GAW.	1.
Enter Drive Axle GAW.	2.
Calculate Uncoupled Tow Vehicle GVW: $(1+2=3)$ .	3.
TOW VEHICLE AND TRAVEL TRAILER WEIGHT DISTRIBUTING HITCH NOT CONNECTED	
Enter Steer Axle GAW.	4.
Enter Drive Axle GAW.	5.
Enter Travel Trailer GAW.	6.
Calculate Coupled Tow Vehicle GVW: $(4+5=7)$ .	7.
TOW VEHICLE AND TRAVEL TRAILER WEIGHT DISTRIBUTING HITCH CONNECTED	
Enter Steer Axle GAW.	8.
Enter Drive Axle GAW.	9.
Enter Travel Trailer GAW:	10.
Calculate Coupled Tow Vehicle GVW: $(8+9=11)$ .	11.
CALCULATIONS	
Enter Tow Vehicle Steer Axle GAWR as indicated on the Tow Vehicle MWL.	12.
Tow Vehicle Steer Axle GAW (lines 1, 4 and 8) MUST each be less than Steer Axle GAWR (line 12).	 Verify
Enter Tow Vehicle Drive Axle GAWR as indicated on the Tow Vehicle MWL.	13.

Tow Vehicle Drive Axle GAW (lines 2, 5 and 9) MUST each be less than Drive Axle GAWR line 13.	 Verify
Enter Travel Trailer GAWR as indicated on the manufacturer weight label.	14.
Trailer GAW (lines 6 and 10) MUST each be less than Trailer GAWR (line 14).	 Verify
Enter Trailer GVWR as indicated on the Trailer MWL.	15.
Calculate the Travel Trailer Tongue Weight. Subtract the Tow Vehicle Uncoupled GVW (line 3) from the Tow Vehicle Coupled GVW (line 7): $(7-3=16)$	16.
Calculate the Travel Trailer GTW by adding the Tongue Weight (line 16) and the Travel Trailer GAW (line 6): $(16+6=17)$ .	17.
Travel Trailer GTW (line 17), MUST be less that the Travel Trailer GVWR (line 15).	 Verify
Calculate the GCW- METHOD ONE, WITHOUT WDH: Add Total Trailer GAW (line 6) and Tow Vehicle GVW (line 7): $(6+7=18)$ .	18.
Calculate the GCW- METHOD TWO, WITH WDH: Add Total Trailer GAW (line 10) and Tow Vehicle GVW (line 11): $(10+11=19)$ .	19.
 <b>Line 18 and Line 19 should be essentially the same. If not, either a calculation is in err or something was changed between weighing.</b>	
Enter the Tow Vehicle GCWR from the Tow Vehicle MWL.	20.
GCW (line 18 and 19) MUST each be less than the GCWR of the Tow Vehicle (line 20). If not, the Tow Vehicle and Travel Trailer exceed their designed combined maximum weight rating and this MUST be resolved.	 Verify