


WORKSHEET #5 - SEGMENTED SCALES

Fifth Wheel Trailers and Tow Vehicles

INSTRUCTIONS	
Position Tow Vehicle and Fifth Wheel Trailer so that axles are centered on separate scale segments. 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 FIFTH WHEEL TRAILER COUPLED	
Enter Steer Axle GAW.	4.
Enter Drive Axle GAW.	5.
Enter Fifth Wheel Trailer GAW.	6.
Calculate Coupled Tow Vehicle GVW: $(4+5=7)$.	7.
CALCULATIONS	
Calculate the Fifth Wheel Pin Weight. Subtract the Tow Vehicle Uncoupled GVW (line 3) from the Tow Vehicle Coupled GVW (line 7): $(7 - 3 = 8)$	8.
Enter Tow Vehicle Steer Axle GAWR as indicated on the Tow Vehicle MWL.	9.
Tow Vehicle Steer Axle Uncoupled GAW (line 1) and Steer Axle Coupled GAW (line 4) MUST each be less than Steer Axle GAWR (line 9).	Verify
Enter Tow Vehicle Drive Axle GAWR as indicated on the Tow Vehicle MWL.	10.
Tow Vehicle Drive Axle Uncoupled GAW (line 2) and Drive Axle Coupled GAW (line 5) MUST each be less than Drive Axle GAWR (line 10).	Verify
Enter Trailer GVWR as indicated on the Trailer MWL.	11.
Calculate Fifth Wheel GTW by adding the Pin Weight (line 8) and the Fifth Wheel GAW (line 6): $(8+6=12)$	12.
Fifth Wheel GTW (line 12) MUST be less than the Fifth Wheel GVWR (line 11).	Verify

Enter Tow Vehicle GCWR from the Tow Vehicle MWL.	13.
Calculate the GCW for the Tow Vehicle and Trailer. Add Total Trailer GAW (line 6) and Tow Vehicle GVW (line 7): (6+7=14).	14.
GCW (line 14) MUST be less than the Tow Vehicle GCWR (line 13). If not, the Tow Vehicle and Fifth Wheel exceed their designed combined maximum weight rating and this MUST be resolved.	 Verify