






WORKSHEET #8 - WIDE SEGMENTED SCALE WEIGHT
Fifth Wheel Vehicles and Tow Vehicles

| INSTRUCTIONS | | |
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| Position Tow Vehicle and Fifth Wheel Trailer so that axles are centered on separate scale segments. This worksheet is used for scales that have sufficient room to allow you to reposition the Tow Vehicle and Trailer so that only half of each Vehicle is on the scale. This will allow calculation of Vehicle weight by corner. All weights are recorded in pounds (lbs). | | |
| TOW VEHICLE ONLY WEIGHT – COMPLETELY ON SCALE | | |
| Enter Steer Axle GAW. | | 1. |
| Enter Drive Axle GAW. | | 2. |
| Calculate Tow Vehicle GVW: $(1+2=3)$. | | 3. |
| TOW VEHICLE ONLY – HALF VEHICLE ON SCALE | | |
| LEFT | Enter appropriate side of Steer Axle on the scale. Subtract that value from line 1 and enter the opposite side axle weight. | RIGHT |
| LEFT | Enter appropriate side of Steer Axle on the scale. Subtract that value from line 2 and enter the opposite side axle weight. | RIGHT |
| COUPLED TOW VEHICLE - FIFTH WHEEL TRAILER ATTACHED COMPLETELY ON SCALE | | |
| 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. |
| Calculate Fifth Wheel Pin Weight. Subtract Tow Vehicle GVW (line 3) from Coupled Tow Vehicle GVW (line 7): $(7-3=8)$ | | 8. |
| COUPLED TOW VEHICLE - FIFTH WHEEL TRAILER ATTACHED HALF ON SCALE | | |
| LEFT | Enter appropriate side of Steer Axle on the scale. Subtract that value from line 4 and enter the opposite side axle weight. | RIGHT |
| LEFT | Enter appropriate side of Drive Axle on the scale. Subtract that value from line 5 and enter the opposite side axle weight. | RIGHT |
| LEFT | Enter appropriate side of Trailer Axle on the scale. Subtract that value from line 6 and enter the opposite side axle weight. | RIGHT |
| CALCULATIONS | | |
| Enter Tow Vehicle Steer Axle GAWR as indicated on the Tow Vehicle MWL. | | 9. |
| Tow Vehicle Steer Axle GAW (line 1) and Coupled Tow Vehicle GAW (line 4) MUST each be less than Tow Vehicle Steer Axle GAWR (line 9). | |  Verify |
| Enter Tow Vehicle Drive Axle GAWR as indicated on the Tow Vehicle MWL. | | 10. |

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| Tow Vehicle Drive Axle GAW (line 2) and Coupled Tow Vehicle GAW (line 5) MUST each be less than Tow Vehicle Drive Axle GAWR (line 10). |  Verify |
| Enter Fifth Wheel GAWR as indicated on the Trailer MWL. | 11. |
| Fifth Wheel GAW (line 6) MUST be less than Trailer Axles GAWR (line 11). |  Verify |
| Enter Fifth Wheel Trailer GVWR as indicated on the Trailer MWL. | 12. |
| Calculate Fifth Wheel GTW by adding the Fifth Wheel Pin Weight (line 8) and the Fifth Wheel Trailer GAW (line 6): $(6+8=13)$. | 13. |
| Fifth Wheel Trailer GTW (line 13) MUST be less than the Fifth Wheel Trailer GVWR (line 12). |  Verify |
| Enter Tow Vehicle GCWR from the MWL. | 13. |
| Calculate GCW by adding Tow Vehicle GVW (line 3) to the Trailer GTW (line 13): $(3+13=14)$. | 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 |