

## CSA Overview for Drivers – DSMS Calculation Knowledge Check Worksheet

### The Formula

Remember the Driver Safety Measurement System (DSMS) formula is:

$$\text{Severity Weight} \times \text{Time Weight} = \text{Level of Severity Rating}$$

### Severity Weight

The DSMS assigns severity weights based upon the level of crash risks. Regarding the severity weight factor, 1 is the lowest multiplier and 10 is the highest.

### Time Weight

The DSMS assigns a time weight factor to each applicable violation. The more recent the violation, the heavier the weight:

- 0-12 months has a multiplier of 3
- 13-24 months has a multiplier of 2
- 25-36 months has a multiplier of 1

### Level of Severity Rating

The DSMS uses the ratings to determine the total points against the driver. It will also determine if a driver has reached the maximum number of points allowed by the CSA program. As with the SMS and carriers, the DSMS places drivers into percentile ranks. These percentile ranks evaluate drivers and may cause the FMCSA to initiate an intervention with employers.

### Other Information You'll Need to Complete the Activity

To answer the question in the Knowledge Check, you may need the following information.

BASIC	Violation Description	Severity Weight	Section
Cargo-Related	Accepting/transporting hazardous materials that were not prepared properly	2	173.25(c)
Controlled Substances/Alcohol	Possessing/using alcohol 4 hours prior to duty	5	392.5(a)
Driver Fitness	Interstate driver under 21 years of age	4	391.11(b)(1)
Fatigued Driving	Driving after being declared out-of-service	10	395.13(d)
Vehicle Maintenance	Inoperative turn signal	6	393.9TS

You can also find this information in the severity job aids you saw earlier in the course as well as the FMCSA website.