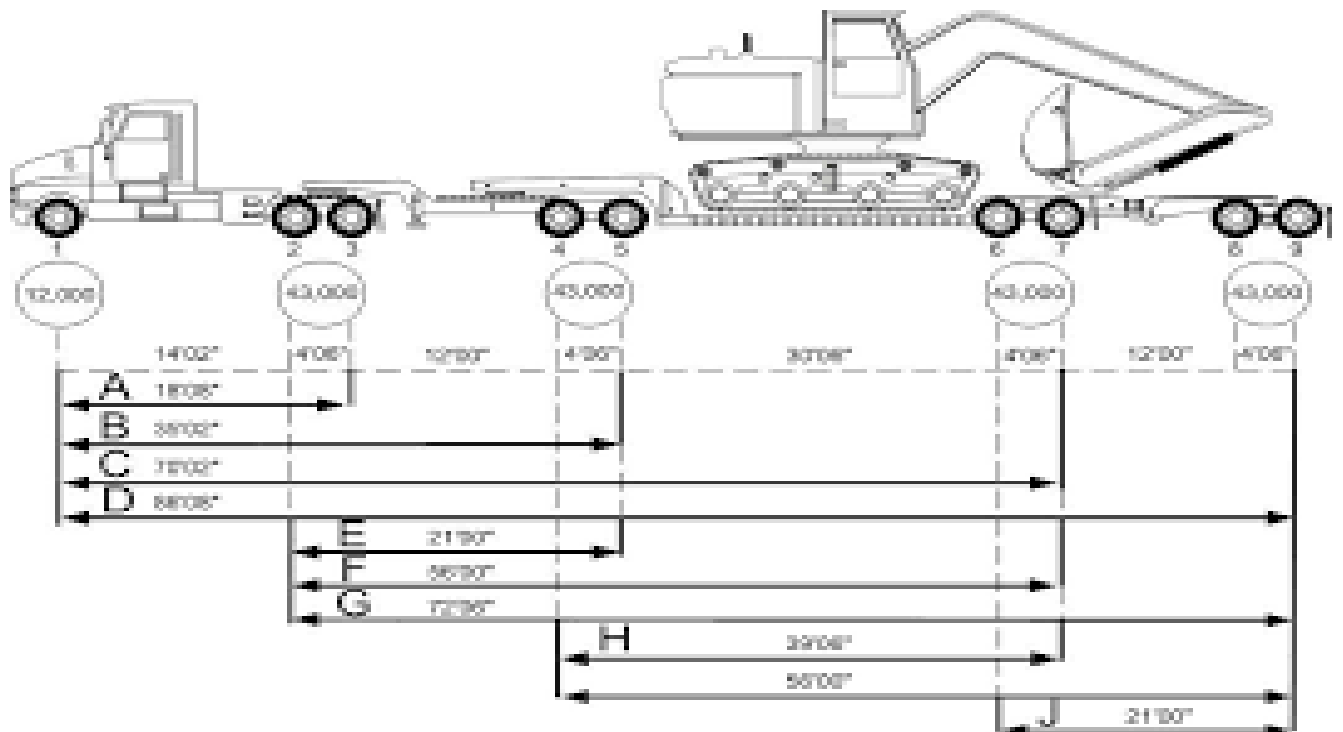
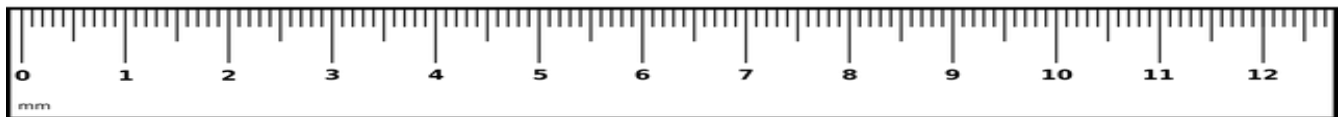


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Homework assignment for Wednesday March 2, 2022



1" = 7.6' on the ruler above

The picture above is a 2+2+2 setup and it is 95' long with tractor and trailers. The trailer is a 65-Ton Lowboy.

TEST YOUR KNOWLEDGE

(A). What is the max. Gross weight you will be able to carry with this set-up?

(B). The tractor is 23,000 lbs. And the trailer is 41,000 lbs. What is your pound per foot being empty?

(C). Fill out the overweight permit application for the weight of the axles you required to travel in the State of North Carolina

- Axle#1 _____ lbs. Requesting _____
- Axle #2 _____ lbs. Requesting _____ Spacing in feet Axle 1 to Axle 2
- Axle #3 _____ lbs. Requesting _____ Spacing in feet Axle 2 to Axle 3
- Axle #4 _____ lbs. Requesting _____ Spacing in feet Axle 3 to Axle 4
- Axle #5 _____ lbs. Requesting _____ Spacing in feet Axle 4 to Axle 5
- Axle #6 _____ lbs. Requesting _____ Spacing in feet Axle 5 to Axle 6
- Axle #7 _____ lbs. Requesting _____ Spacing in feet Axle 6 to Axle 7
- Axle #8 _____ lbs. Requesting _____ Spacing in feet Axle 7 to Axle 8
- Axle #9 _____ lbs, Requesting _____ Spacing in feet Axle 8 to Axle 9

(D). The permit cost \$0.04 per ton over 80,000 lbs. (Example 100,000 lbs. $\$0.04 \times 10 =$) x 419 Miles (Interstate-40) =

(E). North Carolina State Police Charge \$75.00 per hour (\$750.00 daily max) How many hours will it take for you to start driving Monday at 7:00am and 11:00am to 2:00pm no driving and 4:00pm to 7:00pm no driving. You are only allowed to drive from 7:00am to 7:00pm Monday thru Friday. The max speed with your permit is 45 mph. What will be your eta for the Tennessee State Police to meet you at state line if you are starting at Wilmington, NC?

(F). How much will you spend in the state of North Carolina to transport the shipment to Tennessee? Every Night you must stop at a hotel because State police has to stay with the load 24 hours due to military equipment. Hotel cost \$110.00 per night. You fuel consumption is 4 mpg and fuel cost \$4.25 per gallon. Your insurance cost you \$250.00 per day. Your operation cost is \$1.10 per mile. You meal expense is \$15.00 per day. How much did you spend in the state of North Carolina?