

1. Load attachment

Task one

This calculation requires three separate steps

1. Weight of the load plus the weight of the lifting equipment multiplied by the appropriate capacity requirement (20%, 33%, 50%) gives us total load. (save your answer)
2. First Crane capacity divided by the total load gives us that cranes portion of the load and that sum is multiplied by the length or distance between the cranes attachment points. (where the answer is not a whole number, it is rounded down to a whole number)
3. The final figure from step two is then subtracted from the length or distance between the cranes attachment points. This gives us the distance from the first crane that the load will be attached.
(Save your answer for part two)

Minimum Capacity of Second Crane

(Task two)

1. Calculate the total weight of the load and divide it by the length or distance between the cranes attachment points.
2. Multiply the answer from step one by the answer from task one to realize the minimum required capacity for the second crane.