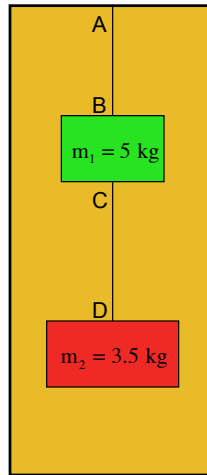


Problem 4.21 hybrid:

Two masses are attached to one another by rope as shown in the sketch.

- a.) What is the difference in tension between Point A and Point B?
- b.) What is the difference in tension between Point B and Point C?
- c.) What is the difference in tension between Point C and Point D?
- d.) Which line has the greater tension, the upper or the lower?



1.)

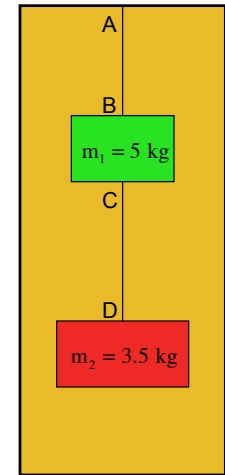
Problem 4.21 hybrid

Two masses are attached to one another by rope as shown in the sketch.

- c.) What is the difference in tension between Point C and Point D?
- d.) Which line has the greater tension, the upper or the lower?

There is no difference.

The line that is holding the most weight, which it to say the top one.



3.)

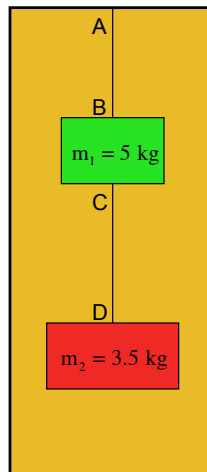
Problem 4.21 hybrid

Two masses are attached to one another by rope as shown in the sketch.

- a.) What is the difference in tension between Point A and Point B?
- b.) What is the difference in tension between Point B and Point C?

There is no difference.

Assuming the system isn't accelerating up or down, the DIFFERENCE in the tensions would simply be equal to the weight of the top mass.



2.)