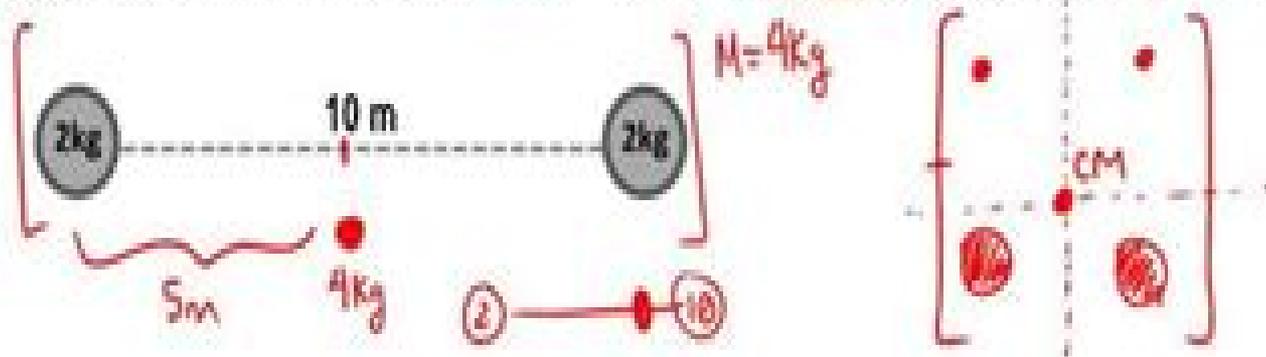


## CENTER OF MASS (AND CENTER OF GRAVITY)



• In Physics, sometimes it's useful to simplify SYSTEM of objects by replacing ALL objects with a single, equivalent object.

• This single object will have mass  $M = \sum m_i$  and will be located at the system's Center of Mass:



→ Center of Mass Equation:

$$x_{CM} = \frac{\sum m_i x_i}{\sum m_i} = \frac{m_1 x_1 + m_2 x_2 + m_3 x_3}{m_1 + m_2 + m_3}$$

• If objects are in a 2D plane, we also have: and  $y_{CM} = \frac{\sum m_i y_i}{\sum m_i} = \underline{\hspace{2cm}}$

EXAMPLE 1: Two masses are placed along the x-axis: mass A (10 kg) is placed at 0.0 m and mass B (20 kg) at 4.0 m. Find the Center of Mass of this system.



# Center Of Mass Problems And Solutions

**Christian Drosten**



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