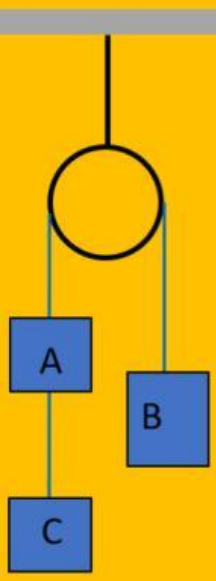
DINAMIKA GERAK

Pada katrol



mA=4kg
mB=15kg
mC=6kg
g=10m/s2
a=?
T antara benda A dan C=?
T pada benda B=?

Buatlah diagram bebas (gaya-gaya yang bekerja) pada sistem katrol di samping pada buku kalian masing-masing. Kemudian, lengkapi jawaban di bawah ini !

$$\sum F_{sistem} = m_{sistem} a$$

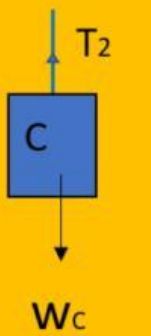
$$w_B - w_A - w_C - T_1 + T_1 + T_2 - T_2 = (m_A + m_B + m_C)a$$

$$w_B - w_A - w_C = (m_A + m_B + m_C)a$$

$$- \quad - \quad = \quad a$$

$$= \quad a$$

$$a = \quad \text{m/s2}$$

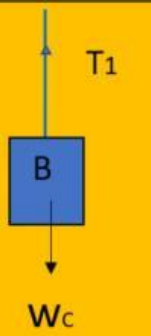


$$\sum F = m_C a$$

$$T_2 - w_C = m_c a$$

$$T_2 = m_c a + w_C$$

$$T_2 = \quad \text{N}$$



$$\sum F = m_C a$$

$$w_B - T_1 = m_B a$$

$$T_1 = w_B - m_B a$$

$$T_1 = \quad \text{N}$$