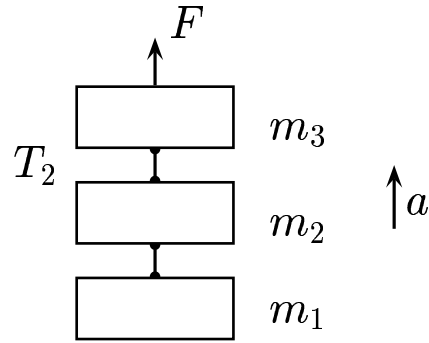


$g \approx 10 \text{ m/s}^2$, $m_1 = m_2 = m_3 = m = 10 \text{ kg}$, $F = 600 \text{ N}$.



Find the acceleration of the 3 blocks.

- A) $a = 10 \text{ m/s}^2$
- B) $a = 20 \text{ m/s}^2$
- C) $a = 30 \text{ m/s}^2$

Taking 1, 2, 3 together leads to $F - 3 m g = 3 m a$. This gives

$$a = \frac{600 - 300}{30} = 10 \text{ m/s}^2 .$$

Answer **A**.

05.07-04 Lifting 3 blocks 2004-3-24