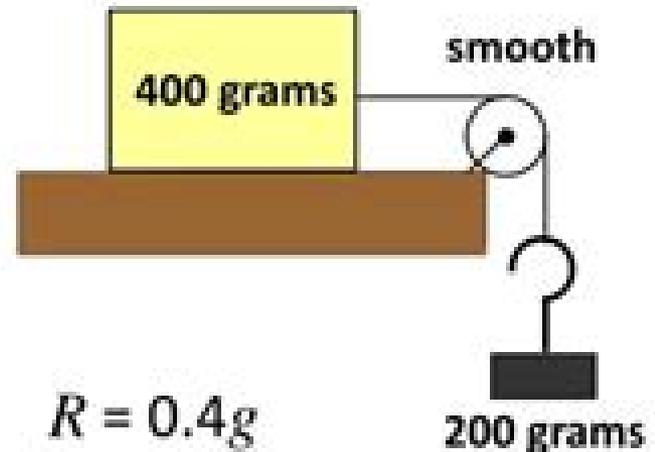


Friction problems

Example

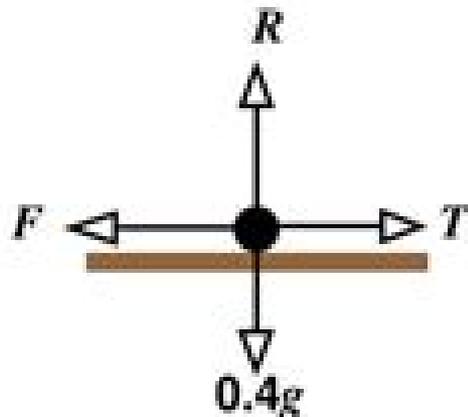
If the package is on the point of moving, find μ .

Think about What forces are acting on the package?



Vertical forces: $R = 0.4g$

Solution



where $g = 9.8 \text{ m s}^{-2}$

On the point of moving

$$F = \mu R = \mu \times 0.4g$$

$$F = T$$

As the pulley is smooth $T = 0.2g$

$$\mu \times 0.4g = 0.2g$$

$$\mu = \frac{0.2g}{0.4g} = \frac{1}{2}$$

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Patrick Vollmar



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