

The Ultimate Vector Dynamics Assignment

9701

1.

A 75 kg man stands on a scale while accelerating upwards in an elevator. If the scale reads 850 N, what is the magnitude of the acceleration of the elevator?

- A. 1.2 m/s<sup>2</sup>
- B. 1.5 m/s<sup>2</sup>**
- C. 9.8 m/s<sup>2</sup>
- D. 11 m/s<sup>2</sup>



$$F_N - F_g = ma$$

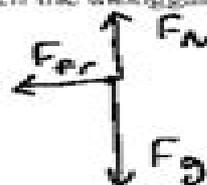
$$\frac{850 - mg}{m} = a$$

$$a = \frac{850 - 75(9.8)}{75}$$

2.

A 45 kg toboggan and rider decelerate on level snow at 0.53 m/s<sup>2</sup>. What is the coefficient of friction between the toboggan and the snow?

- A. 0.012
- B. 0.054**
- C. 0.22
- D. 0.53



$$F_{fr} = ma$$

$$\mu F_N = ma$$

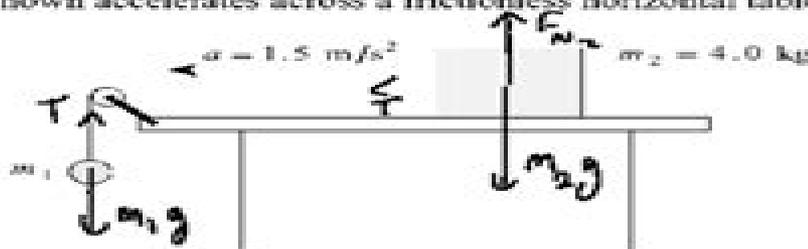
$$\mu mg = ma$$

$$\mu = \frac{a}{g} =$$

9706

3.

The 4.0 kg block shown accelerates across a frictionless horizontal table at 1.5 m/s<sup>2</sup>.



Find the mass of object m<sub>1</sub>.

- A. 0.61 kg
- B. 0.72 kg**
- C. 6.0 kg
- D. 26 kg

$$m_1 g - T + T = m_{\text{both}} a_{\text{both}}$$

$$m_1 g = (m_1 + m_2) a$$

$$m_1 g = m_1 a + m_2 a$$

$$m_1 g - m_1 a = m_2 a$$

$$m_1 (g - a) = m_2 a$$

$$m_1 = \frac{m_2 a}{g - a}$$

$$= \frac{4(1.5)}{9.8 - 1.5}$$

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