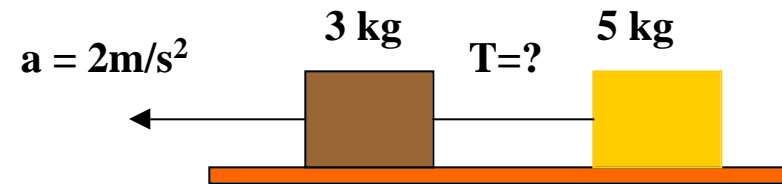


Q1 - Answer = c

Q2 - Problem A - Last name A-K

Two masses, 3 kg and 5 kg, connected by a rope, are accelerated on a frictionless surface by a rope attached to one of them. If their acceleration is 2 m/s^2 what is the tension in the rope connecting them?



a. 2 N

b. 3 N

c. 6 N

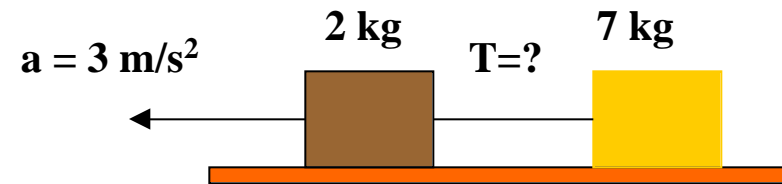
d. 10 N $F = T = ma = 5\text{kg} \times 2\text{m/s}^2 = 10\text{N}$

e. 16 N

Q1 - Answer = c

Q2 - Problem B - Last Name L-Z

Two masses, 2 kg and 7 kg, connected by a rope, are accelerated on a frictionless surface by a rope attached to one of them. If their acceleration is 3 m/s what is the tension in the rope connecting them?



- a. 21 N** $F = T = ma = 7\text{kg} \times 3 \text{ m/s}^2 = 21 \text{ N}$
- b. 6 N
- c. 27 N
- d. 7 N
- e. 15 N