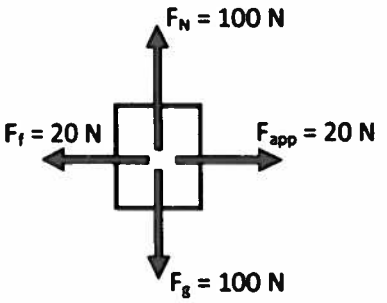
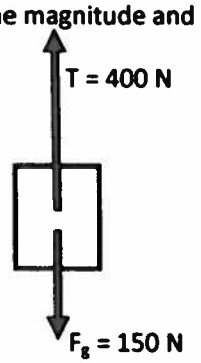
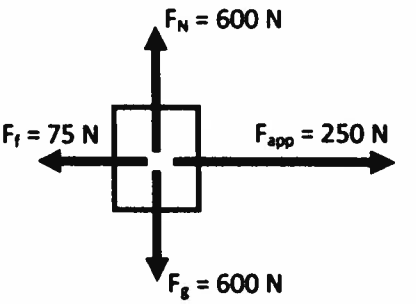
**Worksheet 4.2**

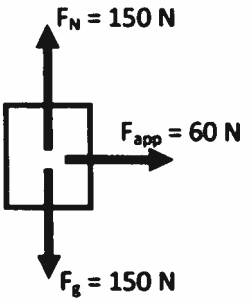
Newton's 2nd Law

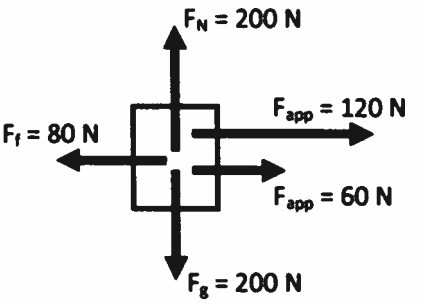
1) For each of the following diagrams determine the magnitude and direction of the net force.

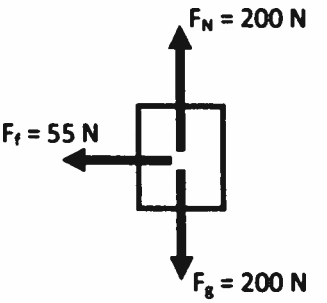


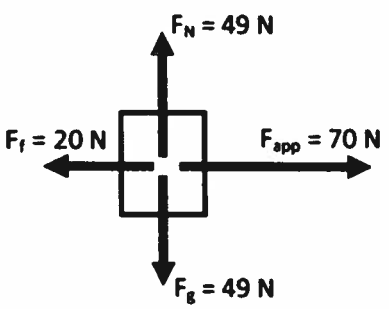



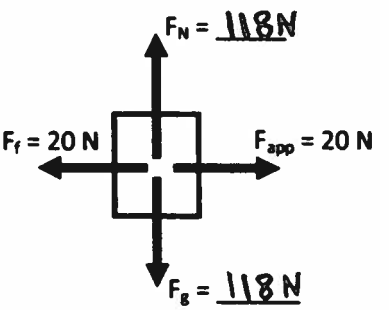




2) Use the information given for each diagram to fill in all missing blanks.



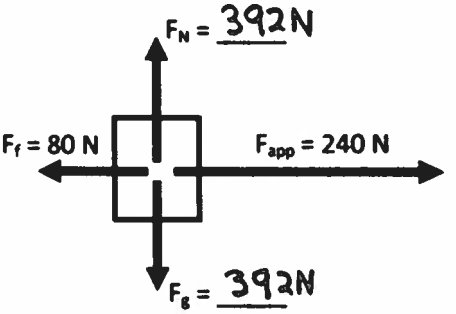

m = 5 kg

a = _____ $m/s^2$



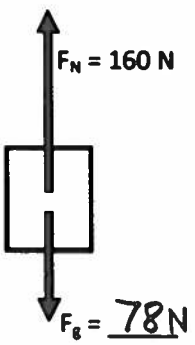

m = 12 kg

a = _____ $m/s^2$



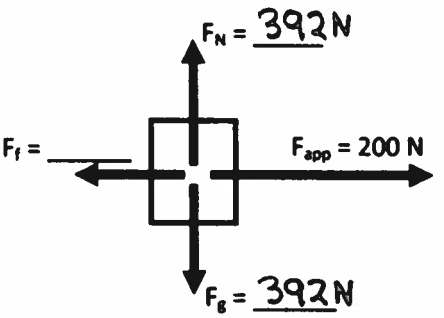

m = _____

a = 4 $m/s^2$ right



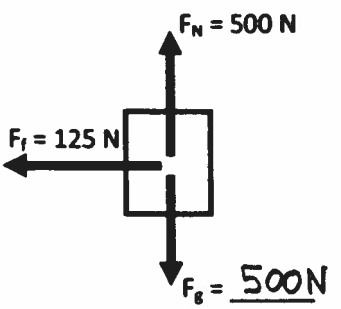

m = 8 kg

a = _____ $m/s^2$




m = 40 kg

a = 4 $m/s^2$ right




m = 51 kg

a = _____ $m/s^2$