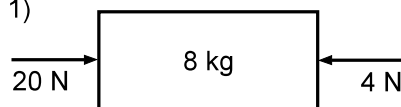
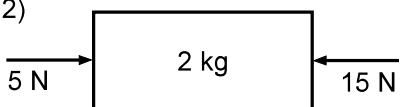
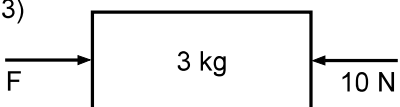
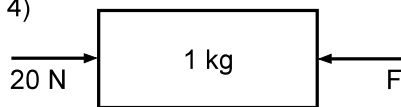
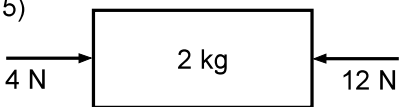
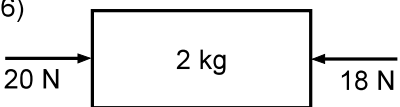
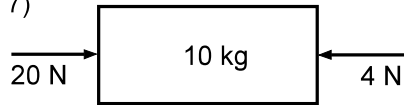


Each of the following free body diagrams represents a different problem. From the given data, solve for the missing quantities. Complete solutions for each problem should be shown (use a separate sheet if necessary).

<p>1)</p>  <p>$F_{\text{net}} =$</p> <p>$a =$</p>	<p>2)</p>  <p>$F_{\text{net}} =$</p> <p>$a =$</p>	<p>3)</p>  <p>uniform motion</p> <p>$F_{\text{net}} =$</p> <p>$a =$</p> <p>$F =$</p>
<p>4)</p>  <p>$a = \text{zero}$ type of motion =</p> <p>$F_{\text{net}} =$</p> <p>$F =$</p>	<p>5)</p>  <p>$F_{\text{net}} =$</p> <p>$a =$</p>	<p>6)</p>  <p>$F_{\text{net}} =$</p> <p>$a =$</p>

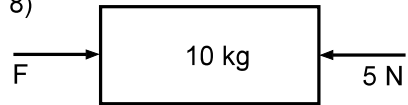
7)



$F_{\text{net}} =$

$a =$

8)

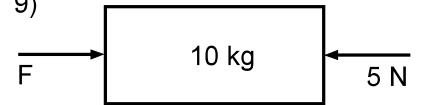


$a = 2.0 \text{ m/s}^2 \rightarrow$

$F_{\text{net}} =$

$F =$

9)

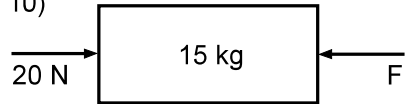


$a = 2.0 \text{ m/s}^2 \leftarrow$

$F_{\text{net}} =$

$F =$

10)

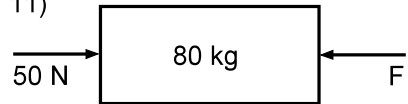


$F_{\text{net}} = 7.5 \text{ N [East]}$

$a =$

$F =$

11)



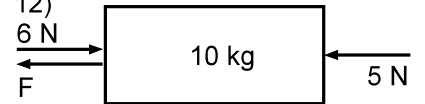
$v_1 = 6 \text{ m/s [East]}$
 $v_2 = 6 \text{ m/s [West]}$
 $\Delta t = 4.0 \text{ s}$

$a =$

$F_{\text{net}} =$

$F =$

12)



$a = 1.7 \text{ m/s}^2 \leftarrow$
 $\Delta t = 5.0 \text{ s}$

$F_{\text{net}} =$

$F =$

$\Delta v =$