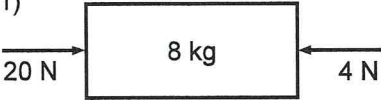
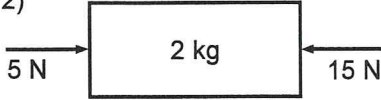
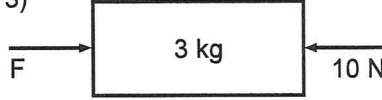
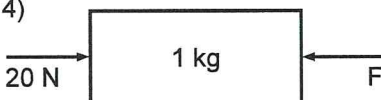
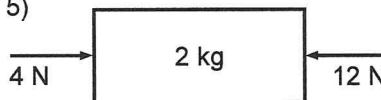
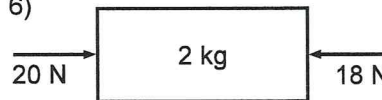
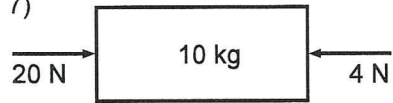


Each of the following free body diagrams represents a different problem. From the given data, solve for the missing quantities. Complete solutions for each problem should be shown (use a separate sheet if necessary).

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

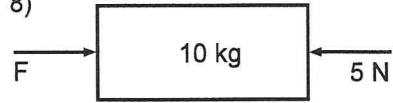
7)



$$F_{\text{net}} =$$

$$a =$$

8)

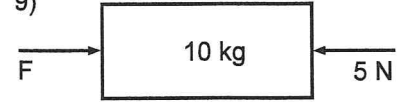


$$a = 2.0 \text{ m/s}^2 \rightarrow$$

$$F_{\text{net}} =$$

$$F =$$

9)

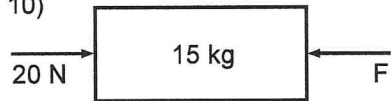


$$a = 2.0 \text{ m/s}^2 \leftarrow$$

$$F_{\text{net}} =$$

$$F =$$

10)

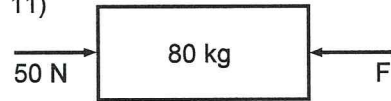


$$F_{\text{net}} = 7.5 \text{ N [East]}$$

$$a =$$

$$F =$$

11)



$$v_1 = 6 \text{ m/s [East]}$$

$$v_2 = 6 \text{ m/s [West]}$$

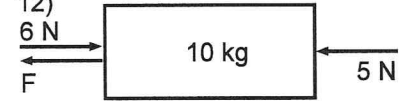
$$\Delta t = 4.0 \text{ s}$$

$$a =$$

$$F_{\text{net}} =$$

$$F =$$

12)



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

$$\Delta t = 5.0 \text{ s}$$

$$F_{\text{net}} =$$

$$F =$$

$$\Delta v =$$