

Name: _____

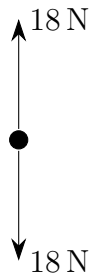
Number: _____

Date: _____

Net Force Practice

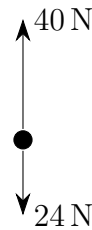
1. In each of the free-body diagrams below, calculate the **magnitude** and **direction** of the net force and draw it.

(a)



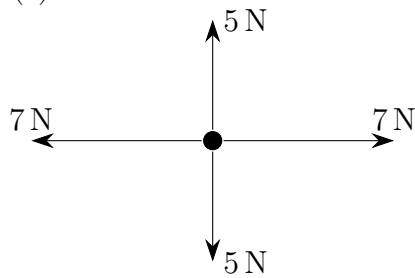
$$F_{NET} = \text{_____ N, _____}$$

(b)



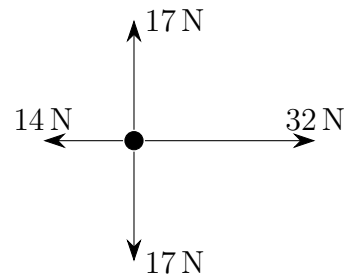
$$F_{NET} = \text{_____ N, _____}$$

(c)



$$F_{NET} = \text{_____ N, _____}$$

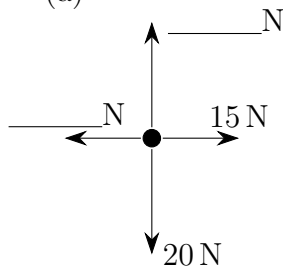
(d)



$$F_{NET} = \text{_____ N, _____}$$

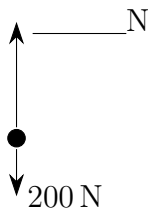
2. In each of the free-body diagrams below, the net force is given, but one or more of the applied forces is missing. Find the missing forces.

(a)



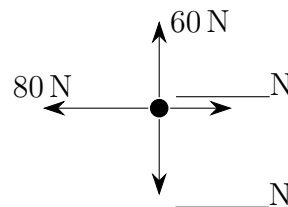
$$F_{NET} = 0 \text{ N}$$

(b)



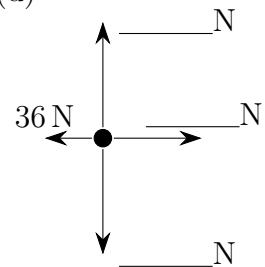
$$F_{NET} = 150 \text{ N, up}$$

(c)



$$F_{NET} = 45 \text{ N, left}$$

(d)



$$F_{NET} = 23 \text{ N, right}$$

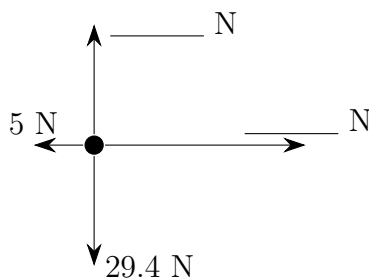
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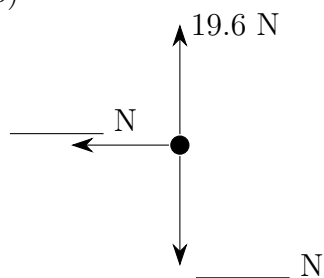
3. Fill in the blanks in each of the situations depicted below. Draw the net force.

(a)



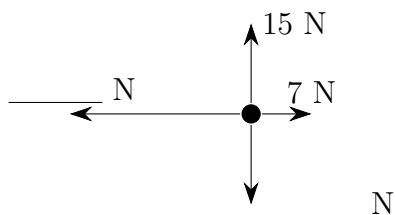
$$F_{NET} = \text{ } 23 \text{ N, right}$$

(b)



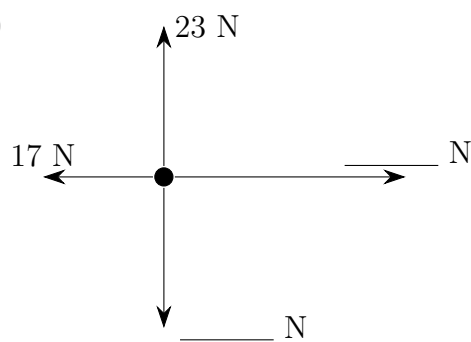
$$F_{NET} = \text{ } 16 \text{ N, left}$$

(c)



$$F_{NET} = \text{ } 60 \text{ N, left}$$

(d)



$$F_{NET} = \text{ } 54 \text{ N, right}$$

4. In your own words, explain how you find the *net force*.