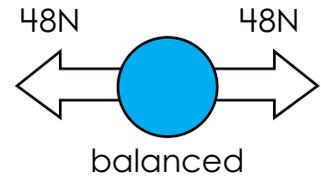


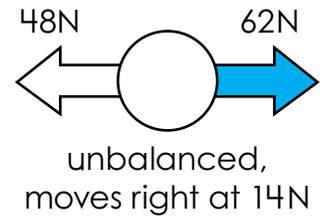
Name: \_\_\_\_\_

# Balanced and Unbalanced Forces

When two or more forces act on a stationary object in opposite directions with equal strength, they are **balanced**. They cancel out to a net force of 0N, and the object stays stationary.



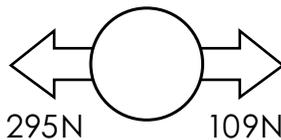
When two or more forces act on a stationary object in opposite directions with unequal strength, they are **unbalanced**. The object will move in the direction the stronger force is heading and with a net force equal to the difference in the opposing forces.



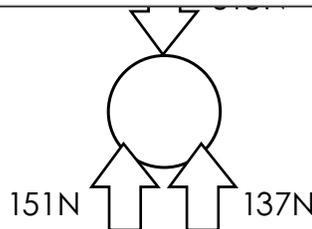
Calculate the net force. If forces are balanced, shade in the object. If they are unbalanced, shade in the arrow(s) pointing the direction the object will move.

# Preview

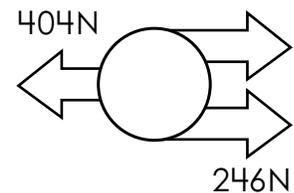
Please log in to download the printable version of this worksheet.



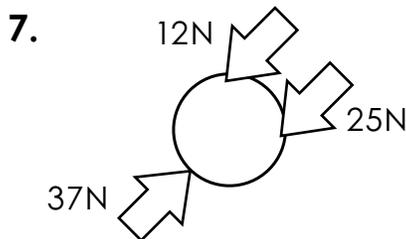
net force: \_\_\_\_\_



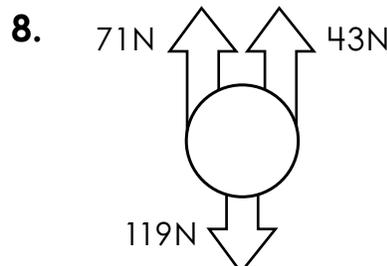
net force: \_\_\_\_\_



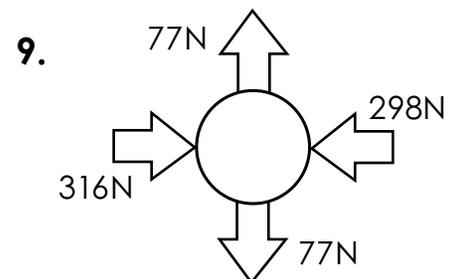
net force: \_\_\_\_\_



net force: \_\_\_\_\_



net force: \_\_\_\_\_

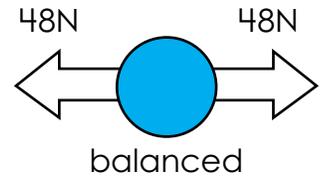


net force: \_\_\_\_\_

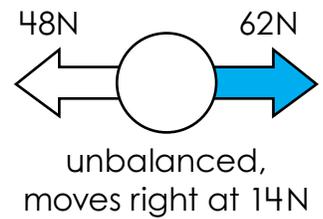
# ANSWER KEY

## Balanced and Unbalanced Forces

When two or more forces act on a stationary object in opposite directions with equal strength, they are **balanced**. They cancel out to a net force of 0N, and the object stays stationary.



When two or more forces act on a stationary object in opposite directions with unequal strength, they are **unbalanced**. The object will move in the direction the stronger force is heading and with a net force equal to the difference in the opposing forces.



# Preview

Please log in to download  
the printable version of this worksheet.

