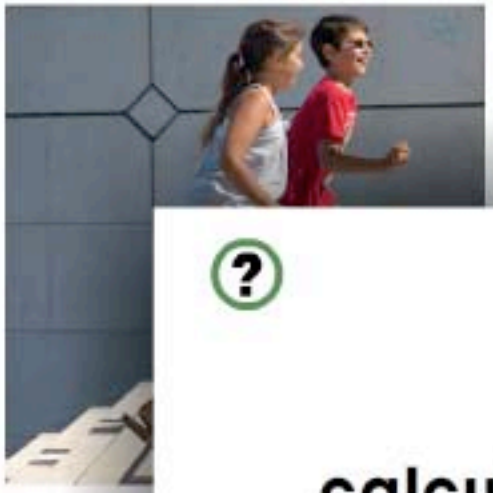
Measuring Work

WORK = FORCE (pound/newtons) **X DISTANCE** (feet/meters)



A girl walks up a flight of stairs.

Force

Her weight = **90 pounds** (347 newtons)

800 foot-pounds
(1084 joules)

Kick force = **60 pounds** (245 newtons)

Distance

Ball distance = **20 feet** (6 meters)

810 foot-pounds
(1200 joules)

Work =

Reset

Instructions

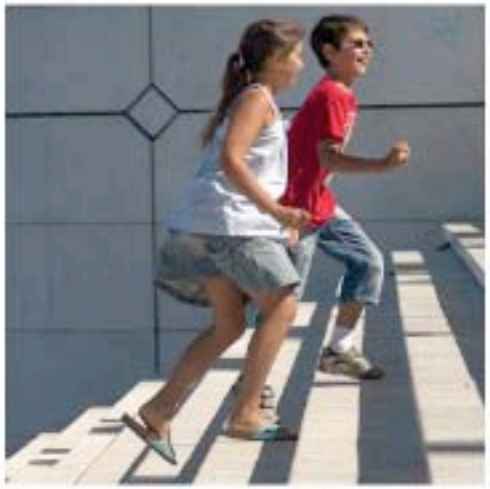
Close X

Using the appropriate equation, calculate the work for the following examples.

- Drag the correct answer from the available options to the designated area.
- **Note:** Four of the options are incorrect.

Measuring Work

WORK = FORCE (pound/newtons) **X DISTANCE** (feet/meters)



A girl walks up a flight of stairs.

Force

Her weight = **90 pounds** (367 newtons)

Distance

The height of the stairs = **9 feet** (3 meters)

Work = **810 foot-pounds** (1200 joules)

A boy kicks a soccer ball into the air.

Force

Kick force = **60 pounds** (245 newtons)

Distance

Ball distance = **20 feet** (6 meters)

Work =

800 foot-pounds (1068 joules)

1200 foot-pounds (1602 joules)

3500 foot-pounds (4895 joules)

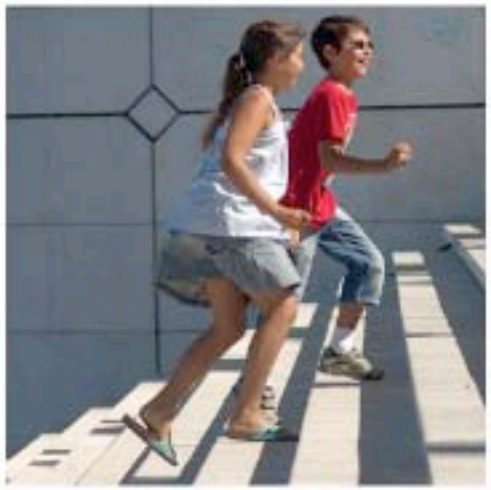
120 foot-pounds (178 joules)

6250 foot-pounds (8340 joules)

Reset

Measuring Work

WORK = FORCE (pound/newtons) **X DISTANCE** (feet/meters)



A girl walks up a flight of stairs.

Force

Her weight = **90 pounds** (367 newtons)

Distance

The height of the stairs = **9 feet** (3 meters)

Work = **810 foot-pounds** (1200 joules)

A boy kicks a soccer ball into the air.

Force

Kick force = **60 pounds** (245 newtons)

Distance

Ball distance = **20 feet** (6 meters)

Work = **1200 foot-pounds** (1602 joules)

WELL DONE!

?

Reset