

# A crate

Sam is pushing a large box, but it is not moving.



Which of the diagrams below best shows the forces acting horizontally on the box? (Ignore any forces acting up and down).

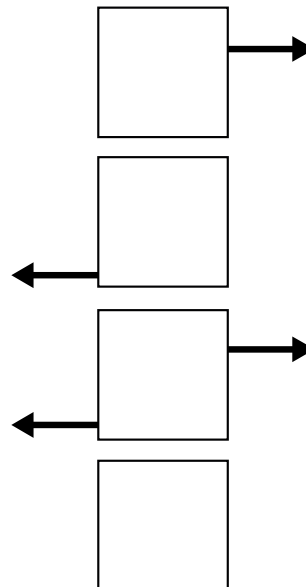
Tick ONE box

The only force on the box is Sam's push.

The only force on the box is friction.

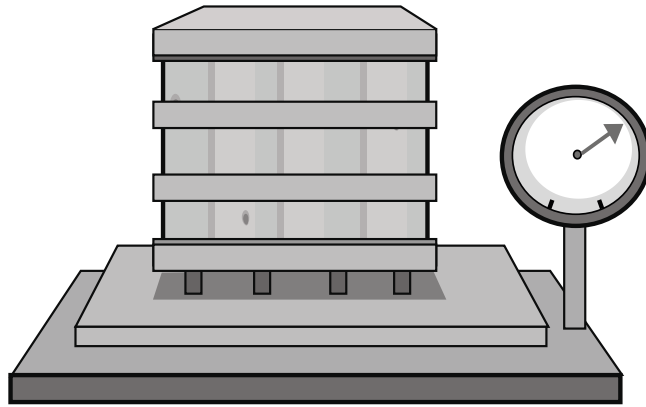
There are two forces on the box: Sam's push and friction.

The box is not moving, so there are no forces acting on it.



# A balance

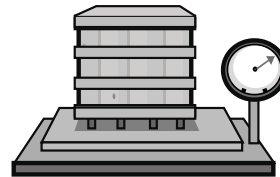
A large crate is sitting on a weighing machine.



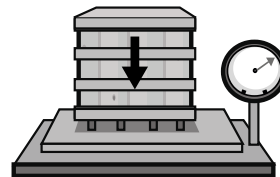
Which of the following best shows the forces acting on the crate?

Tick ONE box

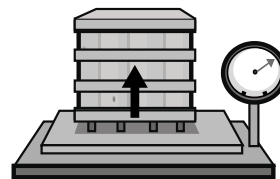
There are no forces acting on the crate.



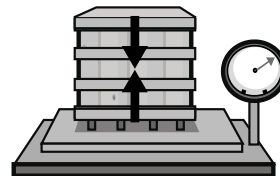
The only force on the crate is gravity, pulling it downwards.



The only force on the crate is the upward push of the weighing machine.

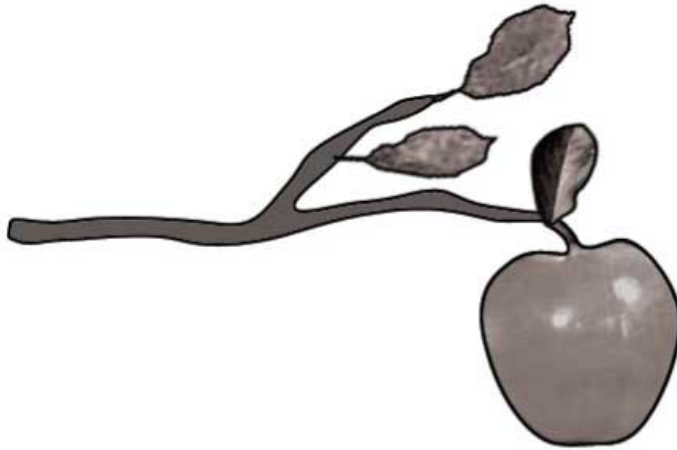


There are two forces on the crate: the downward pull of gravity, and the upward push of the weighing machine.

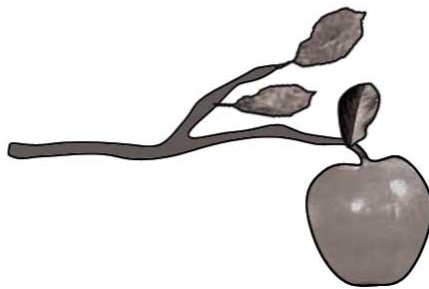


# An apple

An apple is hanging on a branch.



(a) On this diagram, mark with an arrow the force exerted by the Earth on the apple (the force of gravity).



(b) On this diagram, mark with an arrow the force exerted by the branch on the apple.

