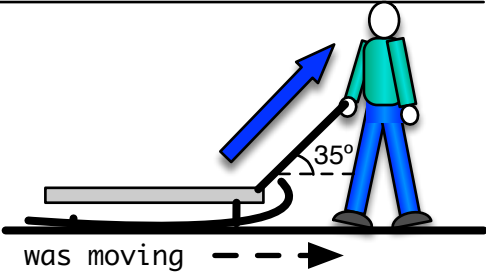


Cycle 6 Components

With Coefficient of Friction A

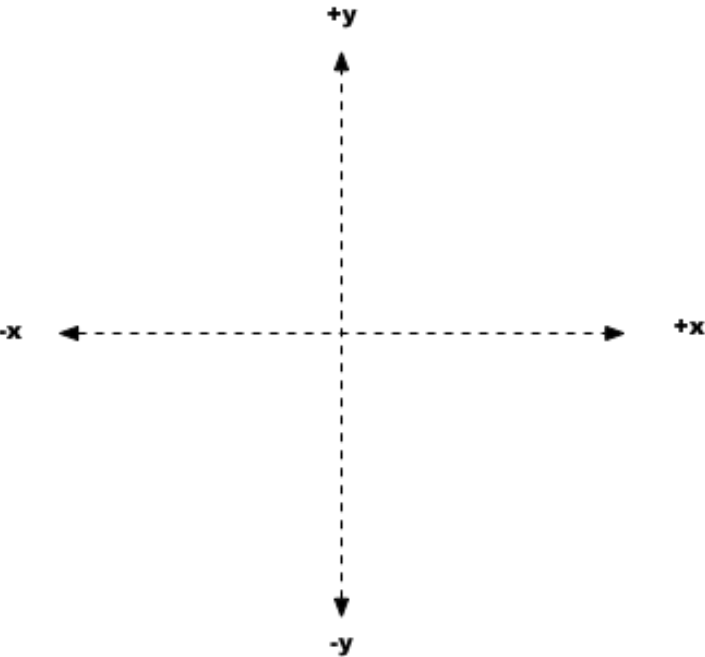
The sled has mass 12 kg. The person pulls with a tension of 75 N. The coefficient of friction between the sled and the snow is 0.20.

- a) Draw and label all forces on the diagram, including components.
- b) Find the Normal Force.
- c) Find the Force of Friction.
- d) Find the net Force in the x-direction.



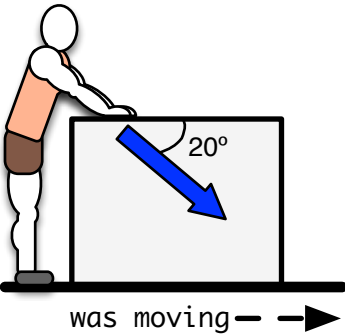
Fnet in the x	Fnet in the y

- ☐ gaining speed.
☐ constant speed.
☐ losing speed.
- ☐ gaining speed.
☐ constant speed.
☐ losing speed.



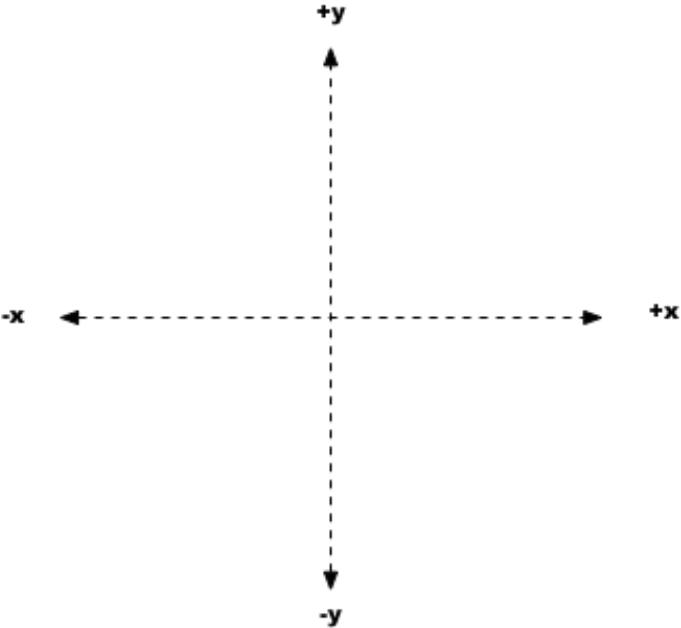
The box weighs 400 N. The person pushes with a force of 300 N. The coefficient of friction between the box and floor is 0.40.

- a) Draw and label all forces on the diagram, including components.
- b) Find the Normal Force.
- c) Find the Force of Friction.
- d) Find the net Force in the x-direction.



Fnet in the x	Fnet in the y

- ☐ gaining speed.
☐ constant speed.
☐ losing speed.
- ☐ gaining speed.
☐ constant speed.
☐ losing speed.

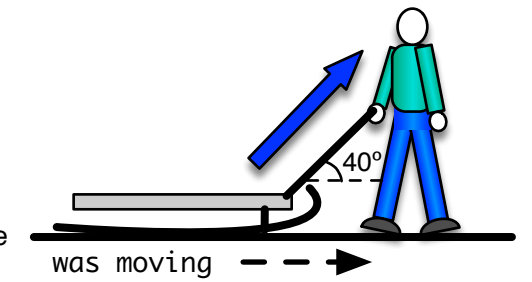


Cycle 6 Components

With Coefficient of Friction A

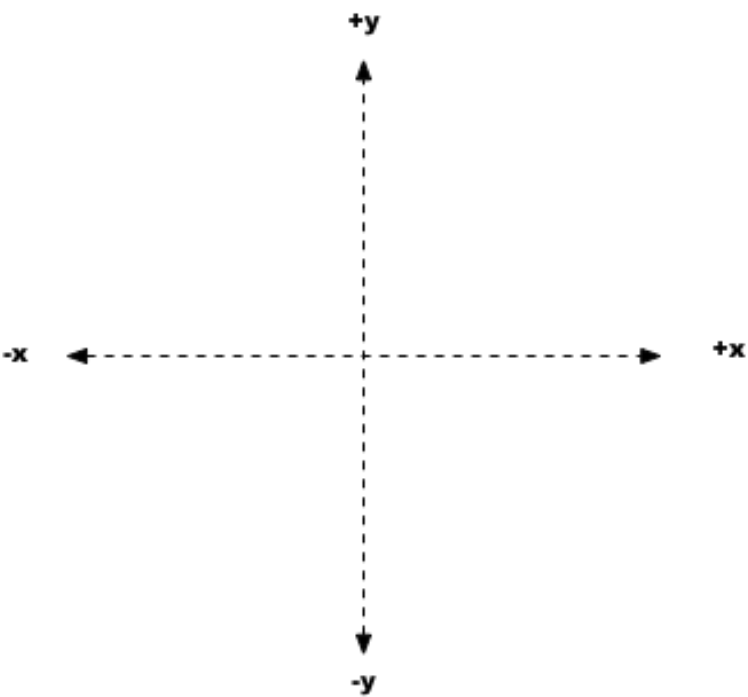
The sled has mass 16 kg. The person pulls with a tension of 60 N. The coefficient of friction between the sled and the snow is 0.15.

- a) Draw and label all forces on the diagram, including components.
- b) Find the Normal Force.
- c) Find the Force of Friction.
- d) Find the net Force in the x-direction.



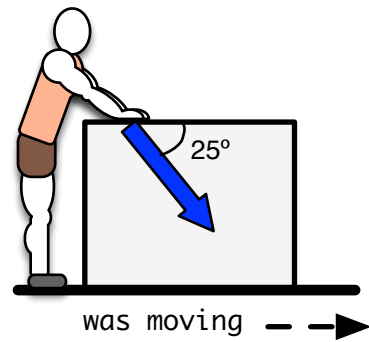
Fnet in the x	Fnet in the y

- ☐ gaining speed.
☐ constant speed.
☐ losing speed.
- ☐ gaining speed.
☐ constant speed.
☐ losing speed.



The box weighs 250 N. The person pushes with a force of 400 N. The coefficient of friction between the box and floor is 0.60.

- a) Draw and label all forces on the diagram, including components.
- b) Find the Normal Force.
- c) Find the Force of Friction.
- d) Find the net Force in the x-direction.



Fnet in the x	Fnet in the y

- ☐ gaining speed.
☐ constant speed.
☐ losing speed.
- ☐ gaining speed.
☐ constant speed.
☐ losing speed.

