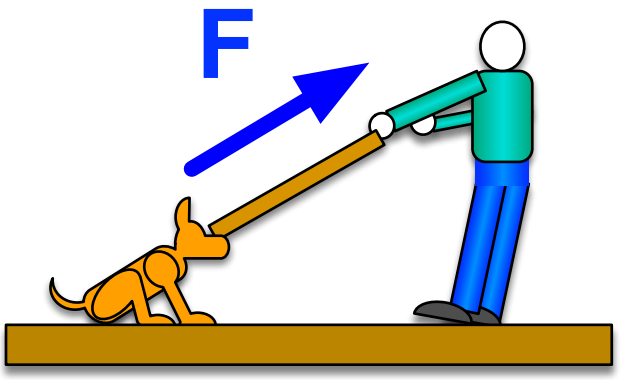
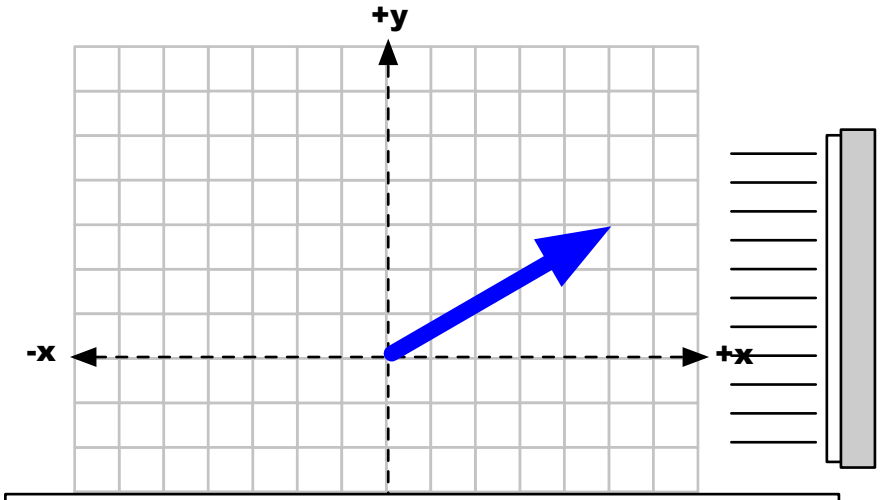
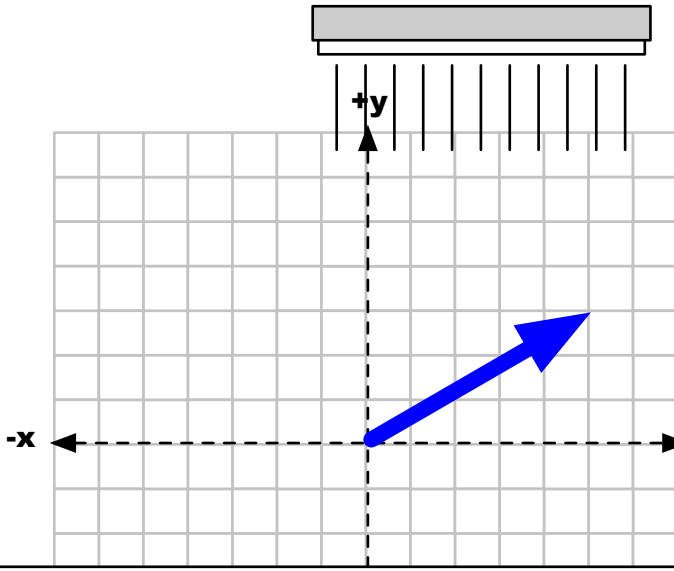
How much of this person's tension is in the x-direction? How much in the y-direction?





Imagine a light shines on the force from the side. Sketch its shadow on the y-axis. How big is it?

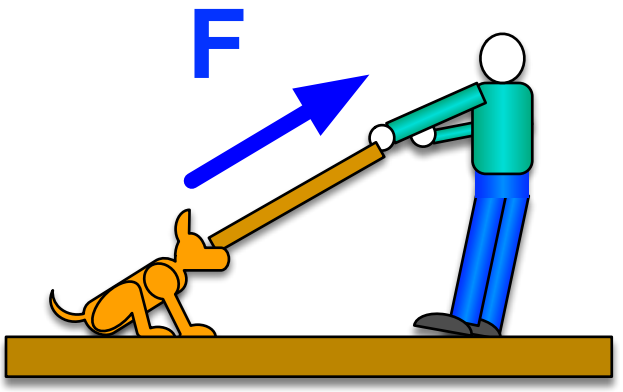
This projection is called the y-component of the force

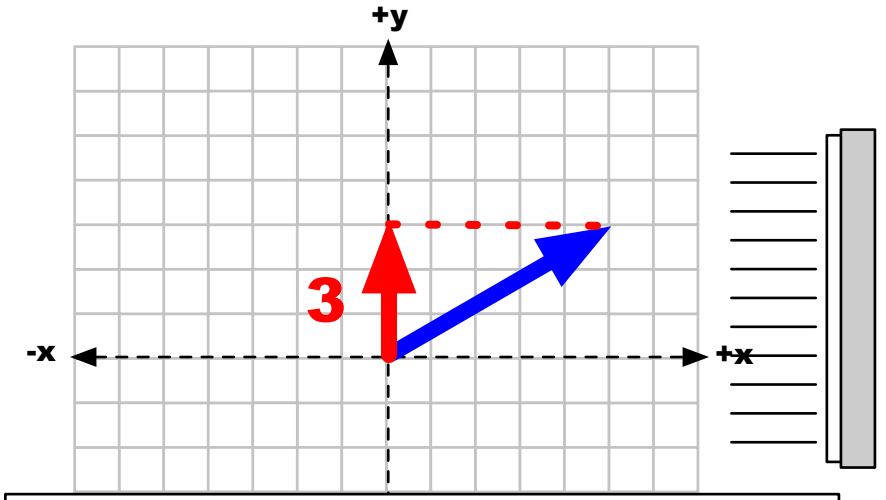


Imagine another light shines on the force from above. Sketch its shadow on the x-axis. How big is it?

This projection is called the x-component of the force

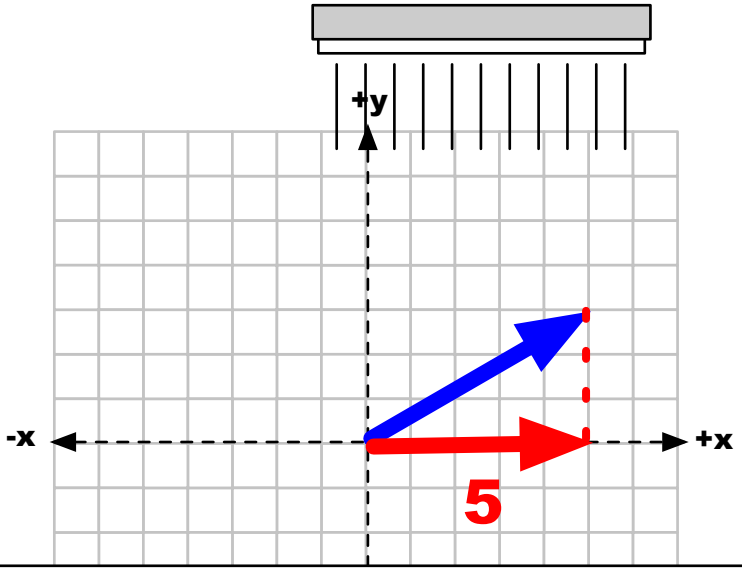
How much of this person's tension is in the x-direction? How much in the y-direction?





Imagine a light shines on the force from the side. Sketch its shadow on the y-axis. How big is it?

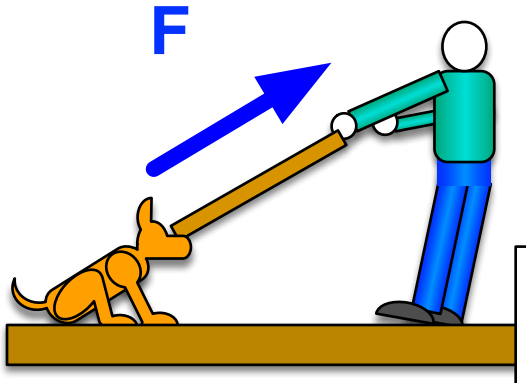
This projection is called the y-component of the force



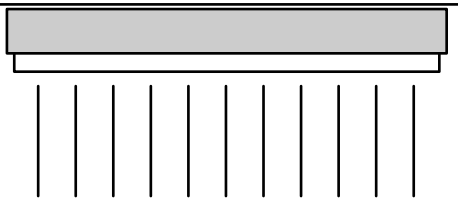
Imagine another light shines on the force from above. Sketch its shadow on the x-axis. How big is it?

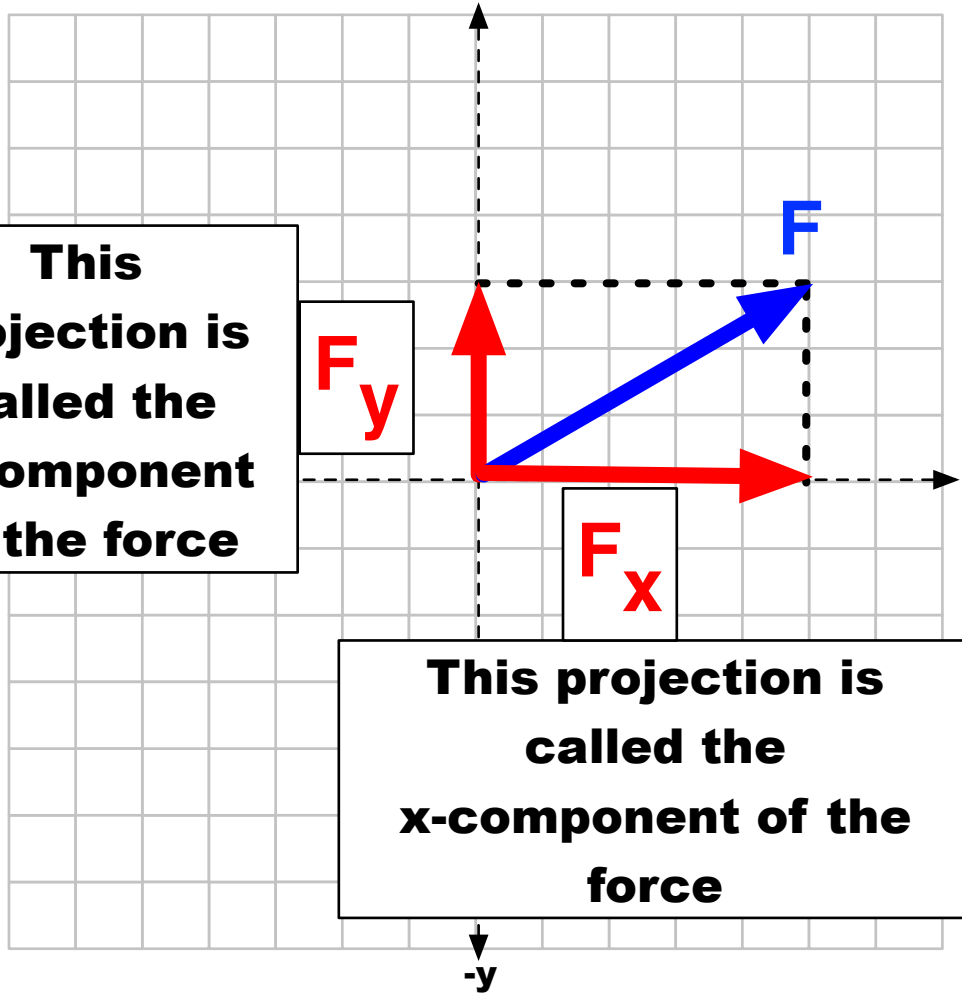
This projection is called the x-component of the force

How much of this person's tension is in the x-direction? How much in the y-direction?



Imagine a light shines on the force from above.



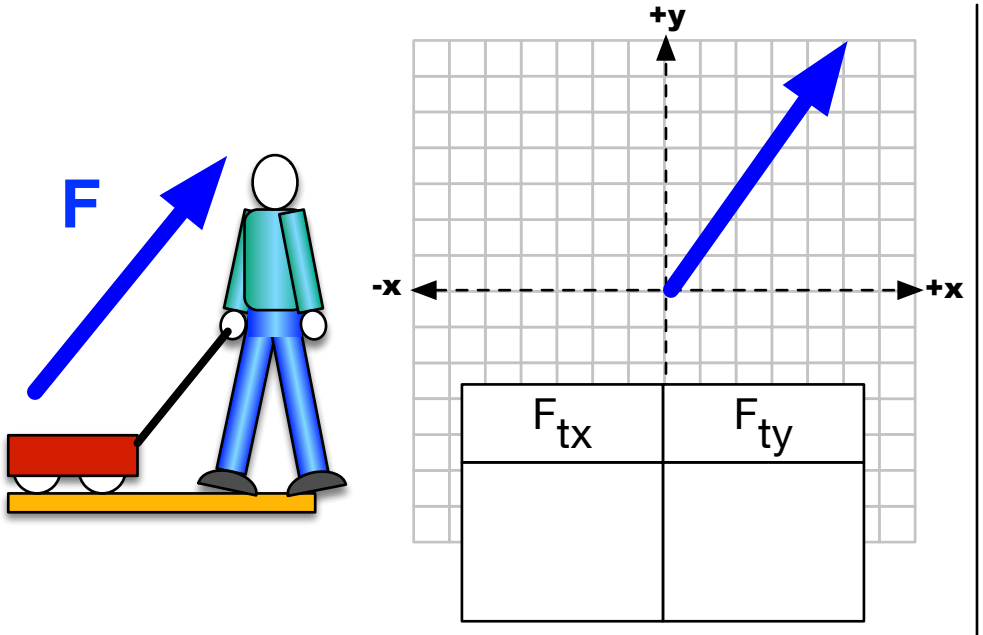


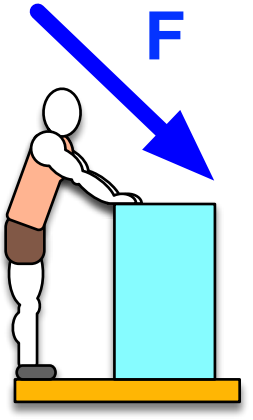
This projection is called the y-component of the force

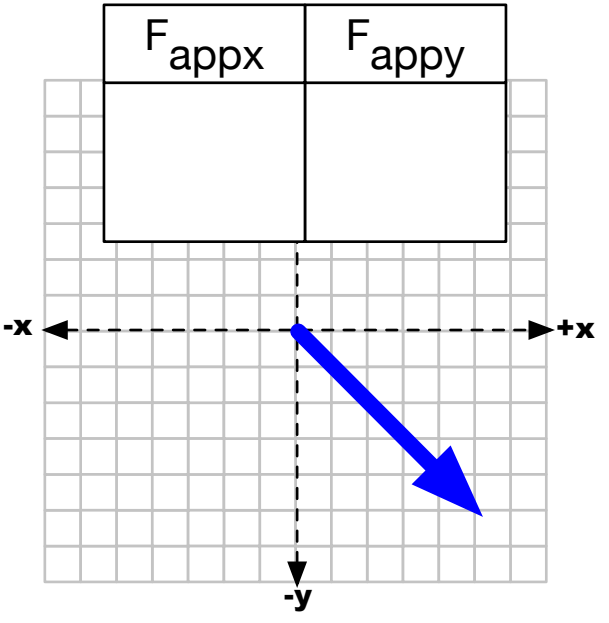
This projection is called the x-component of the force

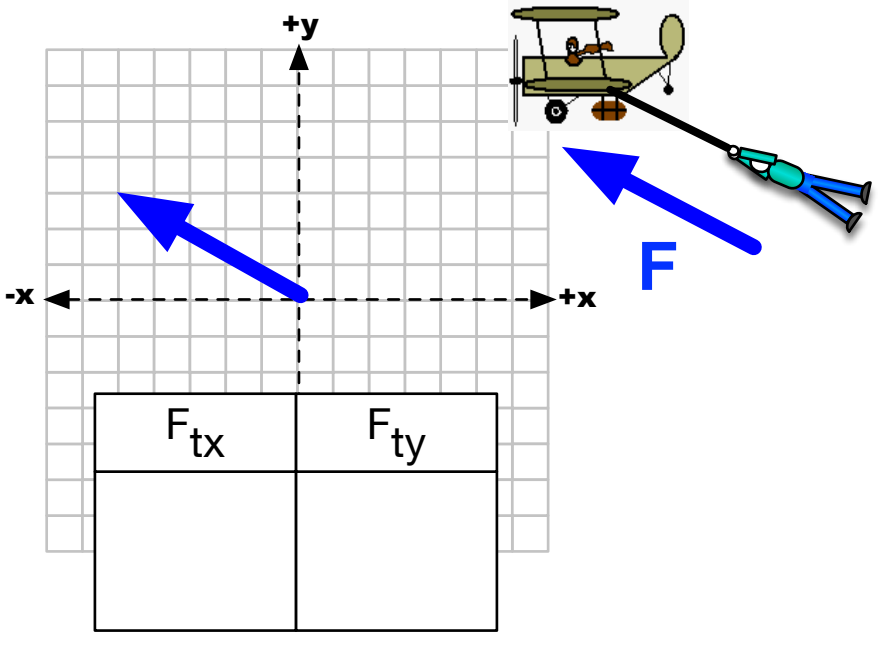
Imagine a light shines on the force from the side.

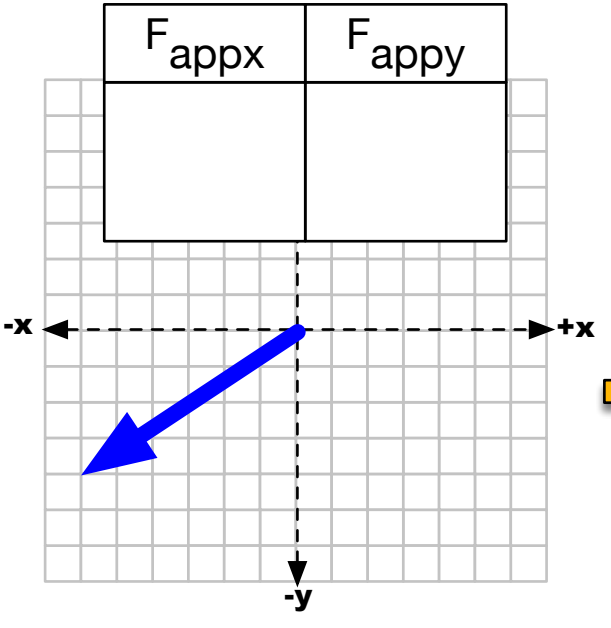
Sketch the x and y components. Estimate their size by counting boxes.

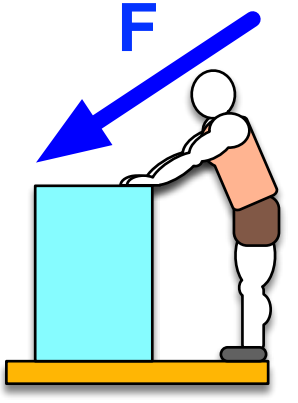




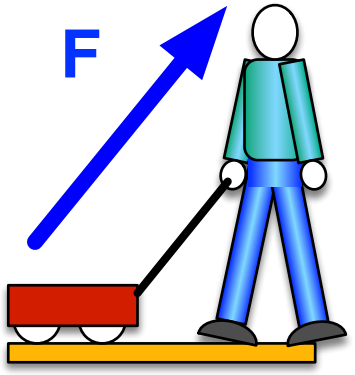


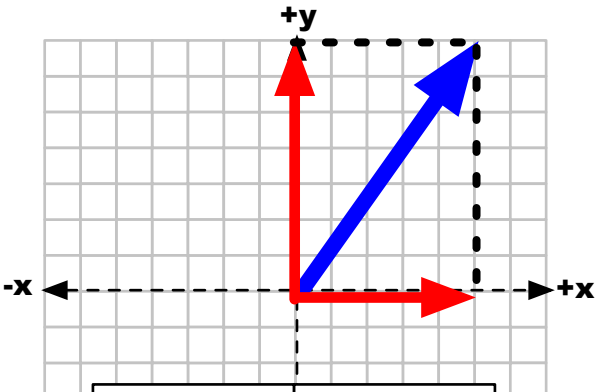




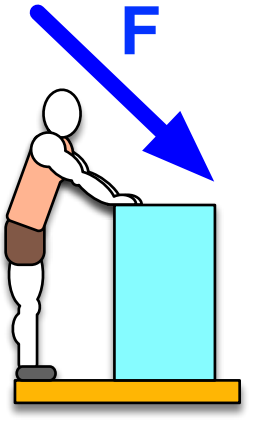


Sketch the x and y components. Estimate their size by counting boxes.

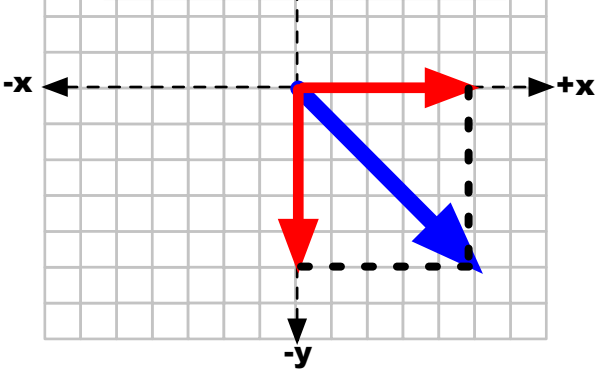


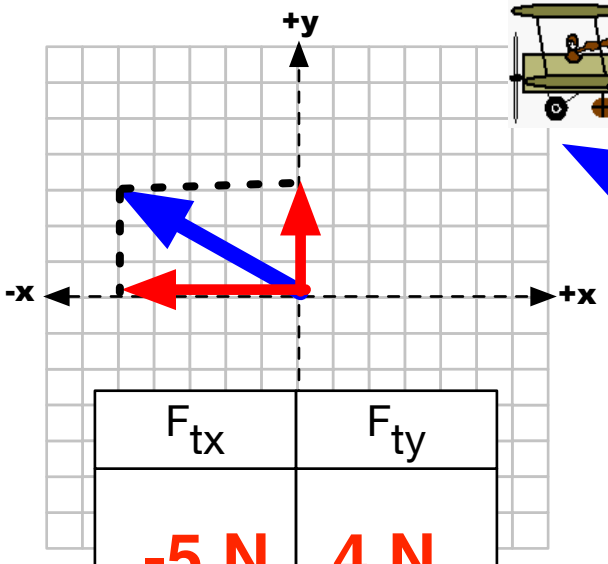


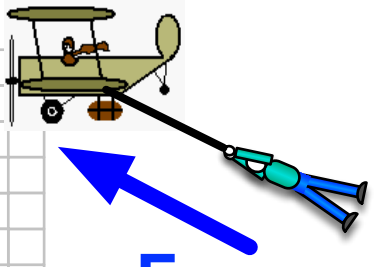
F_{tx}	F_{ty}
5 N	7 N



F_{appx}	F_{appy}
5 N	-5 N







F_{tx}	F_{ty}
-5 N	4 N

F_{appx}	F_{appy}
-6 N	-4 N