

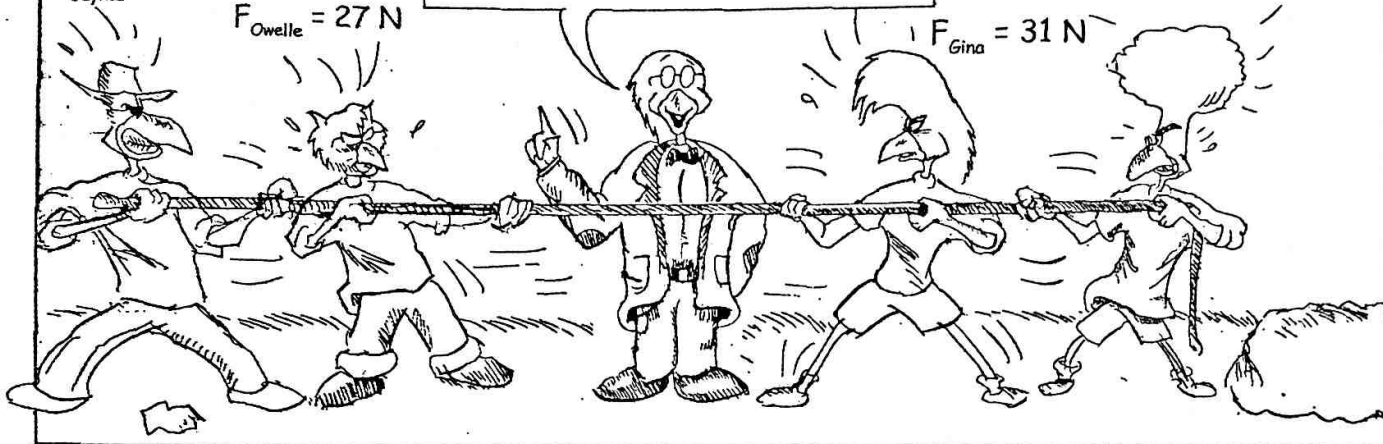
WHEN PARALLEL FORCES ARE EQUAL BUT OPPOSITE IN DIRECTION, THEY CANCEL... AND NO MOTION OCCURS.

$F_{\text{Jaykes}} = 33 \text{ N}$

$F_{\text{Owelle}} = 27 \text{ N}$

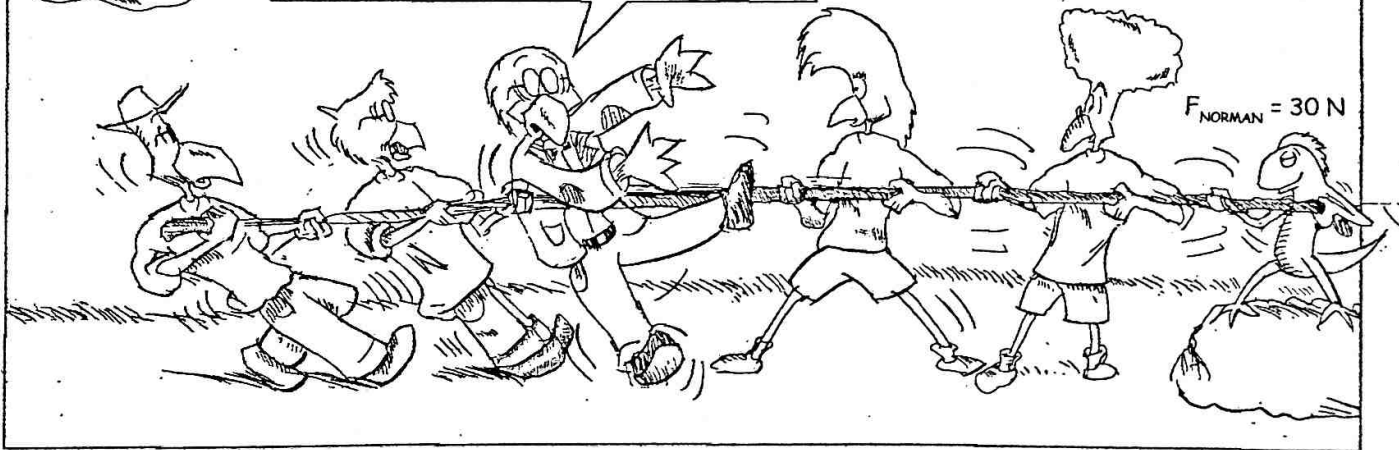
$F_{\text{Gina}} = 31 \text{ N}$

$F_{\text{Lark}} = 29 \text{ N}$



HOWEVER, WHEN A FORCE IN ONE DIRECTION IS GREATER, THERE IS A NET FORCE... RESULTING IN MOTION.

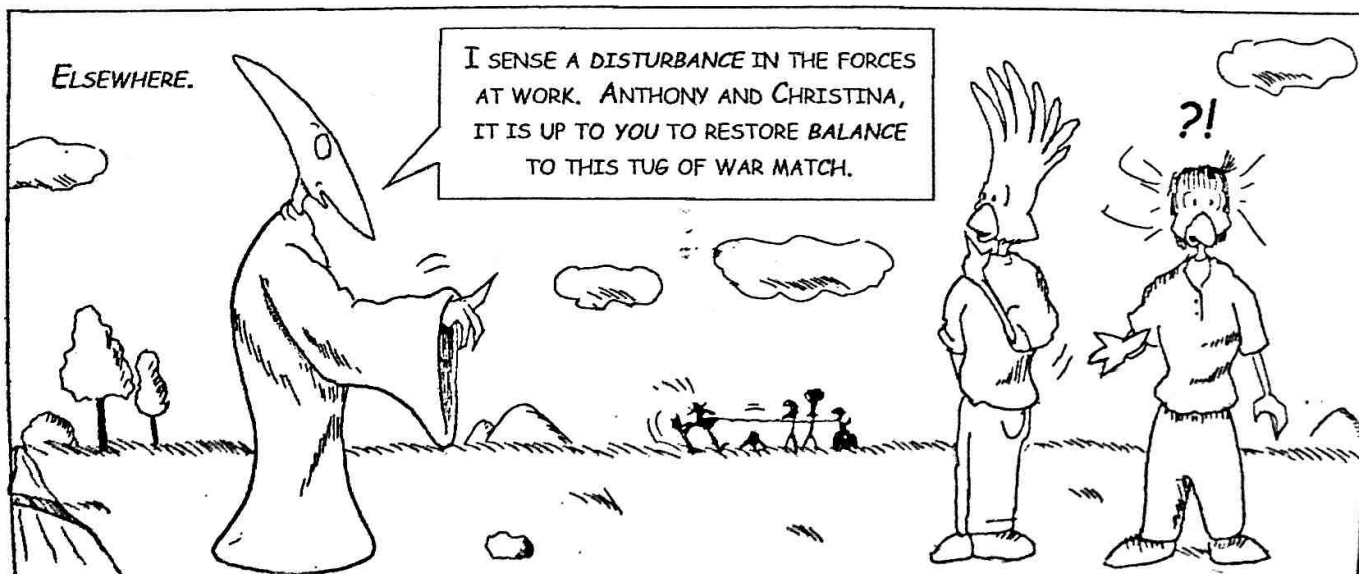
$F_{\text{NORMAN}} = 30 \text{ N}$

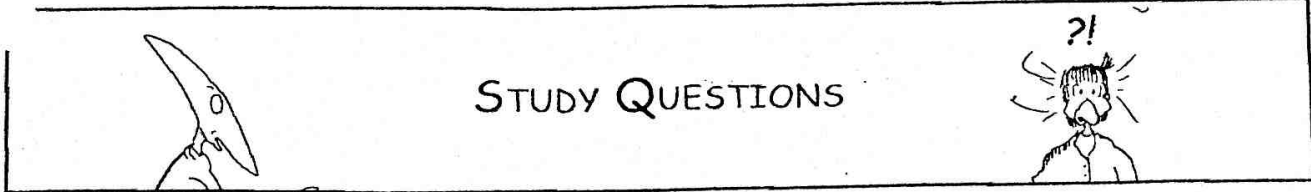


ELSEWHERE.

I SENSE A DISTURBANCE IN THE FORCES AT WORK. ANTHONY AND CHRISTINA, IT IS UP TO YOU TO RESTORE BALANCE TO THIS TUG OF WAR MATCH.

?!

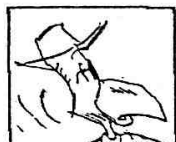




Directions: Answer the following questions to the best of your ability.

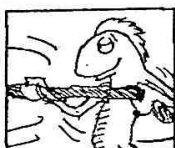


1. When do two forces result in no motion?

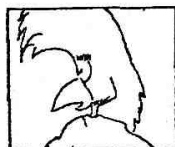


2. In the comic, what causes the forces to become imbalanced? What is the net force in this case?





4. How could Anthony and Christine restore balance to the tug-of-war match?



5. If Gina and Owelle were to compete by themselves in a tug-of-war match and use the same force as in this comic, who would win? What would be the net force?
