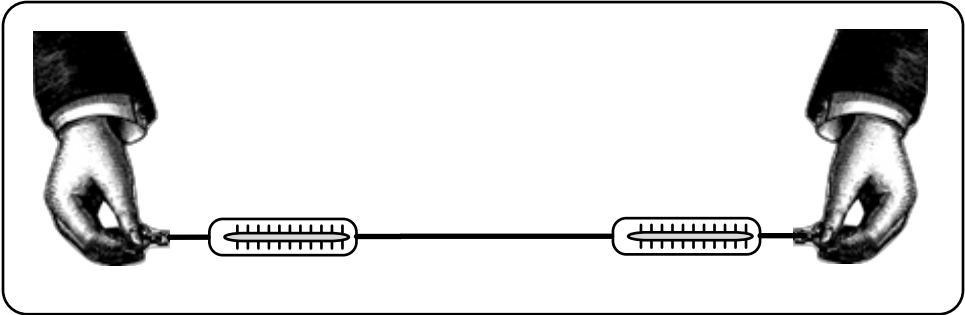


Tension (Ft) Investigation

1 a. Make sure that both spring scales read zero when nothing is attached.

1 b. Hand the spring scales to two different people; connect them with the string.



1 c. Have one person pull with 5 N of force on one end. What is the other spring scale reading? Try 10 N. Try 15 N.

2. What is true of the tension at either end of a string? A rope? A chain?

3. What is the direction of the string's tension pull at the left end? At the right end? (Can you phrase it so that one phrase works for both ends?)

4. If you hold a heavy suitcase weighing 300 N at rest in your hand, what is the tension in your arm. For the suitcase, which way does it point? For your shoulder, which way does it point?