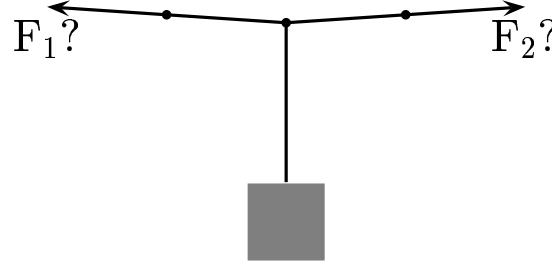
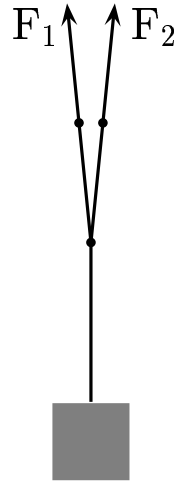


When a strongman suspends a 10-lb telephone book with the rope held vertically, the tension in each strand of rope is 5 lbs .



If a strongman could suspend the book from the strands pulled horizontally as shown, the tension in each strand would be:

- A) About 5 lbs
- B) About 10 lbs
- C) About 20 lbs
- D) Stronger than 20 lbs

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By inspection of the sketch above, to lift  $mg$  with a flat string, it requires a much bigger  $T$ .

Answer **D**.