

## SLING TENSION

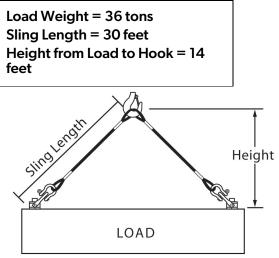
To determine the load on each sling when using a two-leg bridle, the formula is:

load weight x sling length number of slings x height from load to hook

Note: The length of any hardware (e.g. shackles, turnbuckles) connecting the sling to the load will be included in the sling length.

Example 1:

What is the load in tons on each sling for a load rigged as in the figure below? Round off the answer to two decimal places.



Substitute the numbers into the formula:

load weight x sling length number of slings x height from load to hook

$$=\frac{36 \times 30}{2 \times 14}$$

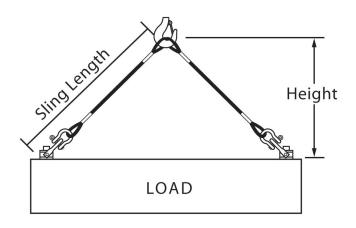
= 38.57 tons



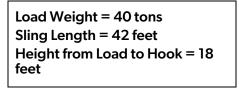
## **Practice Questions:**

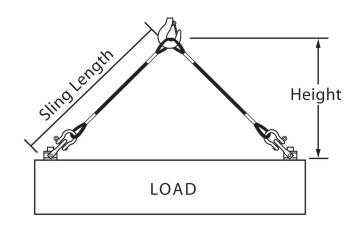
1. What is the load in tons on each sling for a load rigged as in the figure below?

Load Weight = 13,000 pounds Sling Length = 25 feet Height from Load to Hook = 10 feet



2. What is the load in tons on each sling for a load rigged as in the figure below? Round off the answer to two decimal places.

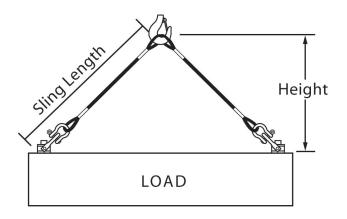






3. What is the load in tons on each sling for a load rigged as in the figure below? Round off the answer to two decimal places.

Load Weight = 4,762 kg Sling Length = 5 m Height from Load to Hook = 4 m



4. What is the load in tons on each sling for a load rigged as in the figure below?

