Wind Study is intended for grades 5-8 and 8-11

 Questions posted on: Monday
 Answers posted on: Friday

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## 2021A12

## (PROPORTIONS, RATES)

Level 1: We start by determining the height the bottom rim of the Lower Mid needs to reach.

Base height 
$$(ft)$$
 + Additional Clearance  $(ft)$  = Necessary Height  $(ft)$ 

39.5 ft + 5 ft = 44.5 ft

Because we know that the Lower Mid still has to be lifted 3/4 of this distance, it is already 1/4 of the distance off the ground.

Necessary Height (ft) 
$$*\frac{1}{4} = Current$$
 Height (ft)  
44.5 ft  $*\frac{1}{4} = 11.125$  ft

Level 2: First, determine how many feet the Lower Mid still needs to be raised.

Necessary Height (ft) 
$$*\frac{3}{4}$$
 = Remaining Height (ft)  
44.5 ft  $*\frac{3}{4}$  = 33.375 ft

Then divide by the rate of movement to determine the time the lift will take.

$$\frac{Remaining \ Height \ (ft)}{Lift \ Rate \ ft/min} = Time \ (min)$$
$$\frac{33.375 \ ft}{2.5 \ ft/min} = 13.35 \ min$$

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A Base section being installed.

