MR. HALL

# of bands	stretch distance (cm)	
1	44	+11
2	55	+11
3	66	+11
4	77	+11
5	88	
n	11n + 33	

drop height to water

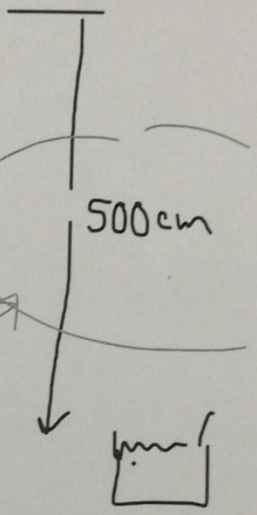
77 + 11

11(1) ± ? = 44

11 ± ? = 44

33

set them equal



Determine the number of rubber needed for the following drop heights:

SHOW WORK

1. 300 cm

$11n + 33 = 300$ "Subtract 33 from each side"

$11n + 33 - 33 = 300 - 33$ "reduce"

$11n = 267$ "divide both sides by 11"

$\frac{11n}{11} = \frac{267}{11}$

$n = 24.27$ NEED 24 bands

2. 700 cm

$11n + 33 = 700$ "Subtract 33 from each side"

$11n + 33 - 33 = 700 - 33$ "simplify"

$11n = 667$ "divide each side by 11"

$\frac{11n}{11} = \frac{667}{11}$

$n = 60.64$ Need ~~600~~ 60 bands

3. 1300 cm

$11n + 33 = 1300$

$11n + 33 - 33 = 1300 - 33$

$11n = 1267$

$\frac{11n}{11} = \frac{1267}{11}$

$n = 115.18$

Needs 115