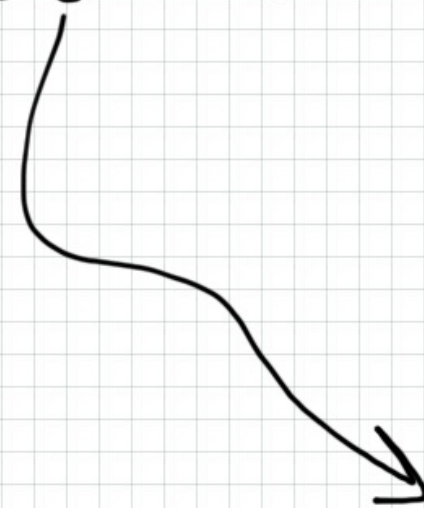


PHYSICS

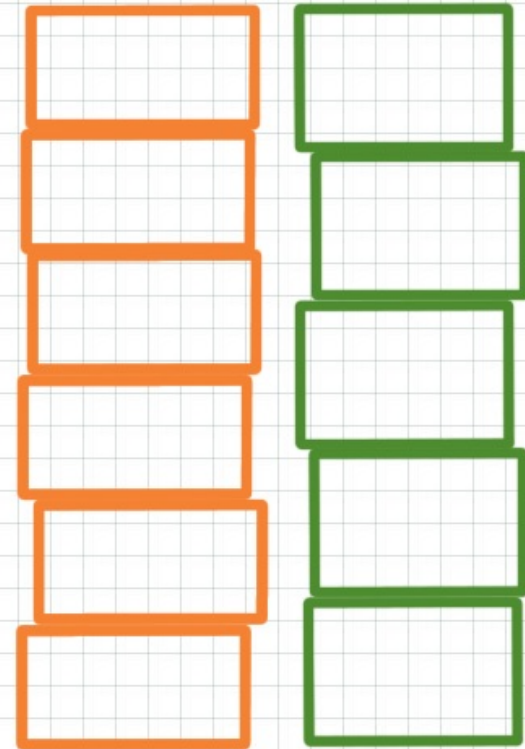
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2014-09-04

\* Turn in "measuring with precision."



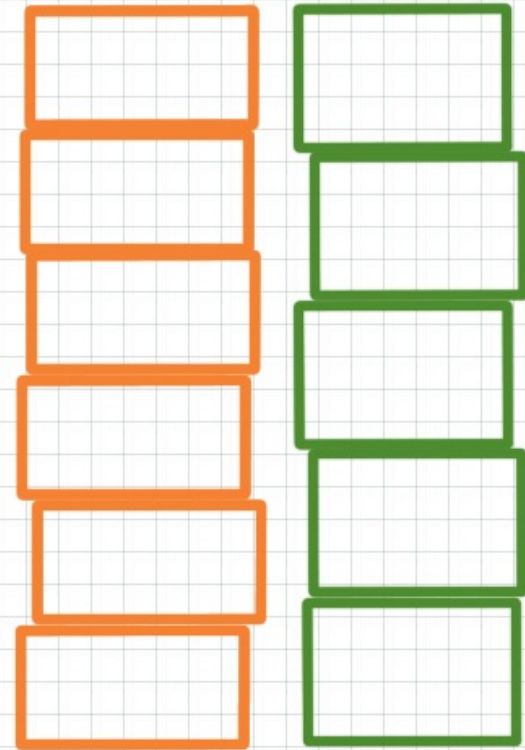
How tall are these?



How tall are these?

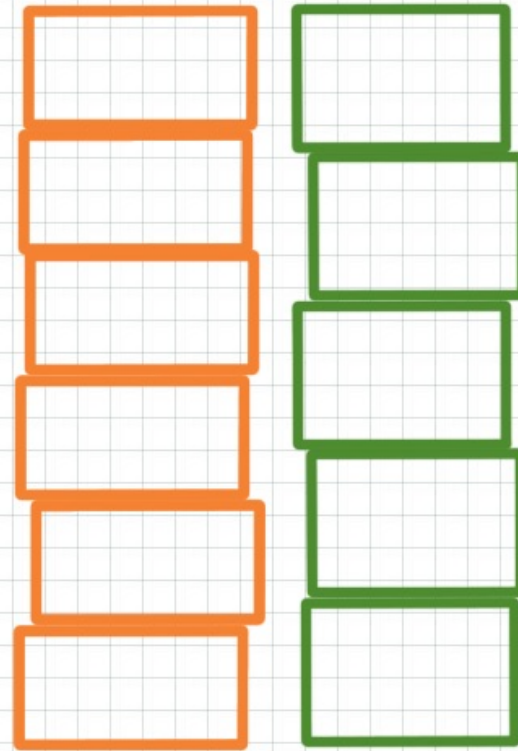
6 orange boxes = 5 green boxes

6 ob = 5 gb



How tall would 3 orange  
boxes be?

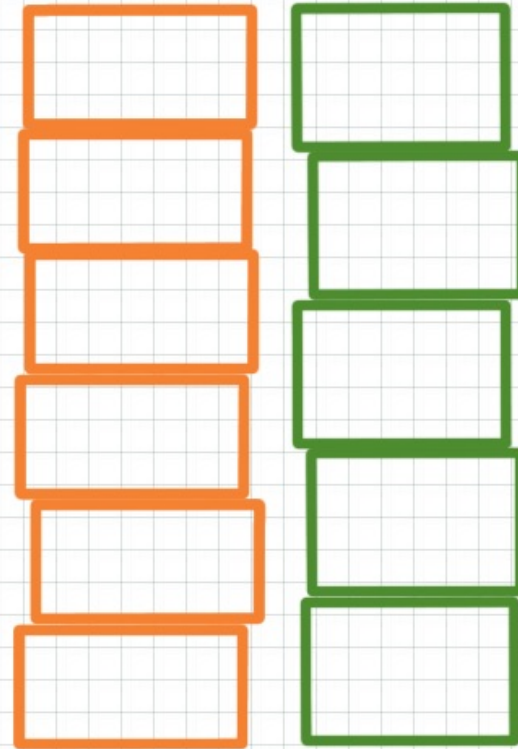
$$6 \text{ ob} = 5 \text{ gb}$$



How tall would 3 orange  
boxes be?

$$6 \text{ ob} = 5 \text{ gb}$$

15 orange boxes?

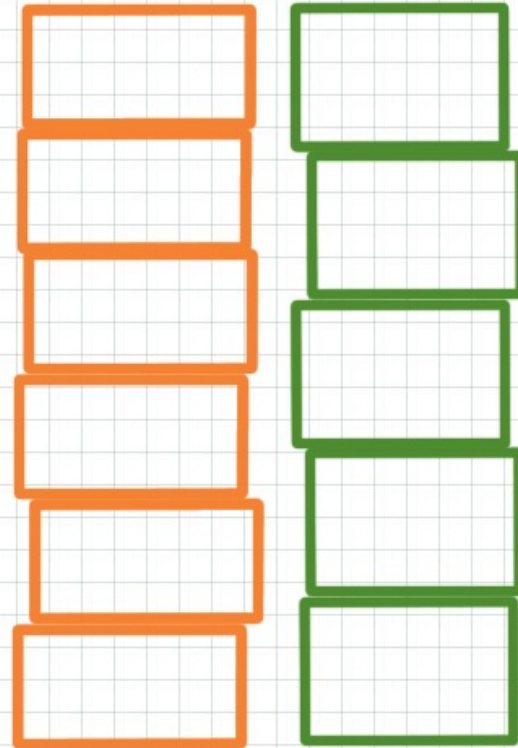



How tall would 3 orange boxes be?

$$6 \text{ ob} = 5 \text{ gb}$$

15 orange boxes?

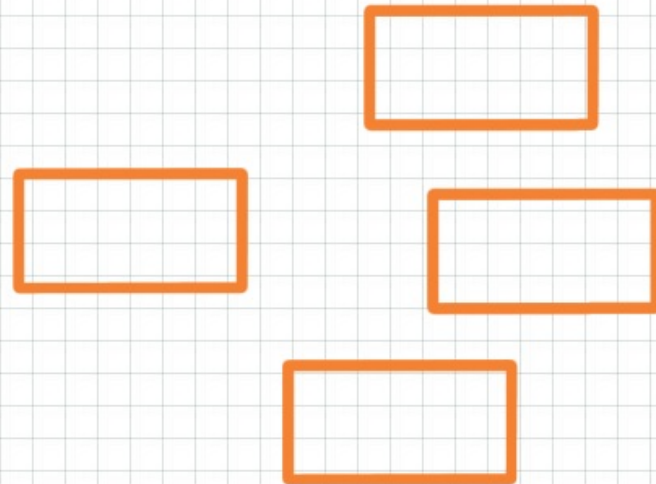
2 green boxes?



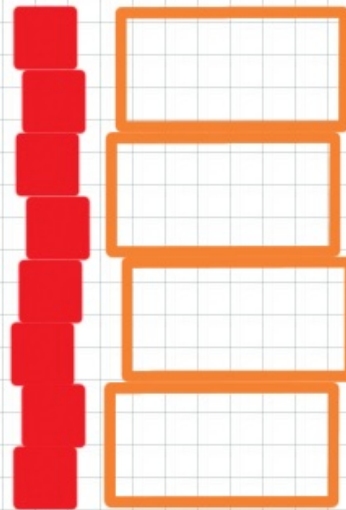
I Found some red squares lying around.  
Like this: 

I misplaced my green boxes, but the  
orange ones are still here.

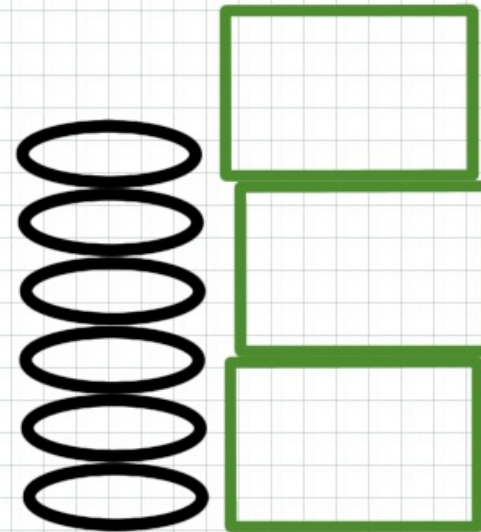
How could I compare  
the squares and green  
boxes?



$$6 \text{ ob} = 5 \text{ gb}$$



How big are the black ellipses?



$$\frac{6 \text{ ob}}{5 \text{ gb}} = \frac{8 \text{ rs}}{4 \text{ ob}} = \frac{6 \text{ be}}{2.3 \text{ gb}} = 1$$

### Conversion Factor:

a ratio of two measurements that are the same size

$$13 \text{ ob} = \boxed{\phantom{00}} \text{ rs?}$$

$$13 \text{ ob} \left( \frac{8 \text{ rs}}{4 \text{ ob}} \right) =$$

$$\frac{6 \text{ ob}}{5 \text{ gb}} = \frac{8 \text{ rs}}{4 \text{ ob}} = \frac{6 \text{ be}}{2.3 \text{ gb}} = 1$$

Convert 5 be to gb?

Convert 9.7 rs to gb?