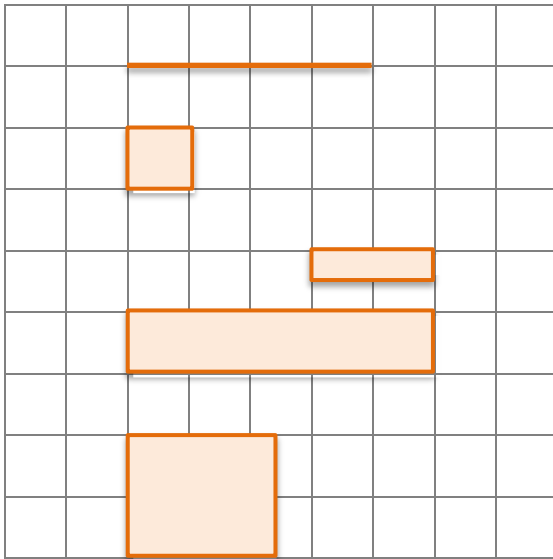



Unit and Dimension Practice

Name _____



This length:  is the unit called a **linea**. The grid to the left is based on this unit.

- Draw a segment 4 *linea* long on the grid.
- What does a single square *linea* (linea^2) look like?
- Can you draw a rectangle with an area of 1 linea^2 that is not a square? Please do so!
- Draw a rectangle that has an area of 5 linea^2 .
- Draw a second rectangle that has an area of 5 linea^2 , but with different dimensions than your first one.
- What is a cubic *linea*? What everyday object has a volume about 1 linea^3 ? A cubic *linea* is a cube 1 *linea* long on each side. The tip of my pinky is about that volume. A couple of peas, maybe? A large peanut?

Now let's introduce the trimetric prefixes!

Tri – three of something.

Nona – nine of something

Venseti – Twenty-seven of something

Itria – One third of something.

Inona – One ninth of something

Ivensetia – One twenty-seventh of something

F) Please draw a trilinea.

G) Please draw an itrialinea.

H) How many linea fit in a trilinea? 3

I) How many itrialinea fit in a trilinea? 9

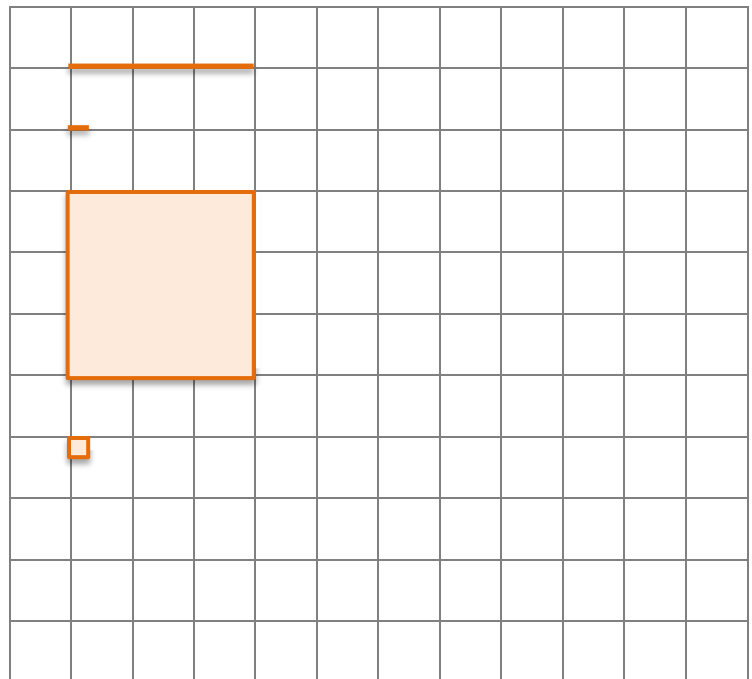
J) How many trilinea fit in a linea? $\frac{1}{3}$

K) Please draw a trilinea^2 .

L) Please draw an itrialinea^2 .

M) How many linea^2 fit in a trilinea^2 ? 9

N) How many itrialinea^2 fit in a linea^2 ? 9



P) How many ivensetialinea fit in a trilinea? $27 \times 3 = 81$

Q) How many vensetilinea fit in a trilinea? $\frac{1}{9}$

R) How many vensetilinea fit in an ivensetialinea? $\frac{1}{729}$

S) How many ivensetialinea² fit in a linea^2 ? 729

T) How many ivensetialinea³ fit in a linea^3 ? $27^3 = 19,683$