Algebra 1   4.1
Write and graph linear equations in slope-intercept form.
Model data with equations in slope-intercept form $x = 3$
linear
slope
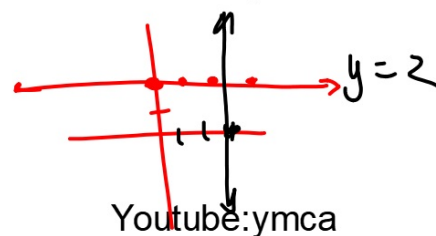y-intercept
y=mx+b
constant function (horizontal) $y = 2$
bicycles and constant slope $x = 3$

$$y = mx + B$$

$$y = 2$$

$$x = 3$$

Youtube:ymca

Song
Whiteboards

$$y = mx + B$$

rate of change ↑ (m)   ↑ start (B)

5. FUNDRAISERS The band boosters are selling sandwiches for $5 each. They bought $1160 in ingredients.

$$y = 5x \qquad -1160$$

A. Write an equation for the profit P made on n sandwiches.

B. Graph the equation.

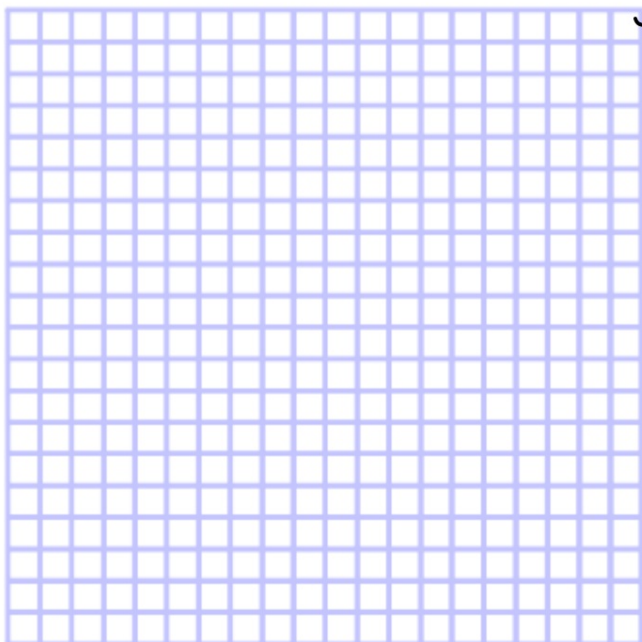**C.** Find the total profit if 1400 sandwiches are sold.

$$y = 5 \cdot 1400 - 1160$$

$$y = \$5840$$

When do they make a profit?

4.1 ICE ws due today at end of day (work in class)