Day 2 - Real World Y-Intercepts — Notes

a real world situation, the y-intercept represents the **starting value** or starting point. Determine the y-intercept of the following table:

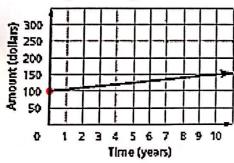
A. How many pills were in the bottle to start?

Days Passed	Vitamins Remaining in Bottle
7	25
* (8	23
۲۱ (9	21
10	19 2-2

39 bills to start
$$\begin{cases}
y = mx + b \\
a5 = -2(7) + b \\
a5 = -14 + b \\
\hline
39 = b
\end{cases}$$

B. The graph below shows Colby's saving account over time. Explain what the y-intercept means in context of the graph.

Colby's Savings Account



When Colby first started saving, the chad \$100.

C. Alberto is saving for a new video game. After adding two weeks of his allowance to a savings account, he has \$105. After adding three more weeks of his allowance, his savings is now at \$150. Determine the y-intercept and explain what the y-intercept means in terms of the problem.

$$\frac{150-105}{5-a} = \frac{45}{3} = ^{5}15$$
 year week

Alberto Started with 975.