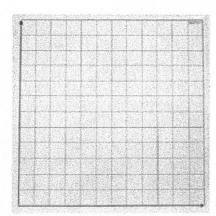
Concept #7 – Writing Linear Equations

Write and graph an equation. Identify and interpret the slope, y-intercept and x-intercept (when appropriate).

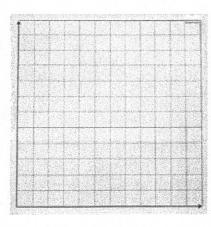
1. Your mom is making a scrapbook for all of your wonderful middle school memories (Go Colts!). The album costs \$10 and each of the scrapbook papers costs an additional \$1. Write an equation that represents the cost of the completed scrapbook where *x* represents the number of scrapbook pages you purchase.

Equation:	



2. A hot tub that holds 120 gallons of water drains at a rate of 10 gallons per minute. Write an equation that represents how many gallons of water are left in the tub after it has drained for *x* minutes.

Equation:



$$x$$
-intercept = and it means....

3.	You have \$6 to spend on apples and bananas. If the apples cost \$1.50 per pound and
	the bananas cost \$0.60 per pound, write an equation that represents the number of
- antibo.	pounds of apples and bananas you can purchase.

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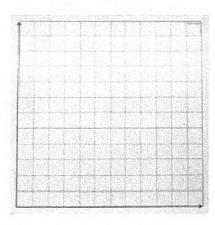
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slope =	and it means
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$$x$$
-intercept = ____ and it means....

4. The amount of money you spend on CDs and DVDs is \$126. Write an equation that represents the number of CDs and DVDs you can purchase if CDs cost \$14 each and DVDs cost \$18 each.

Equation:



$$x$$
-intercept = _____ and it means....