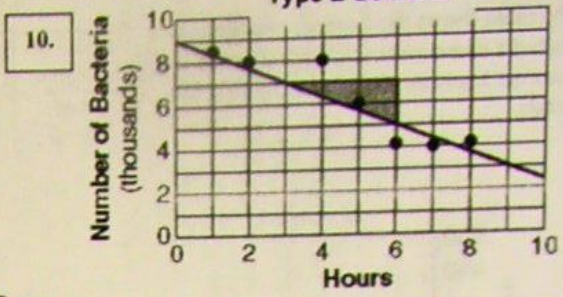
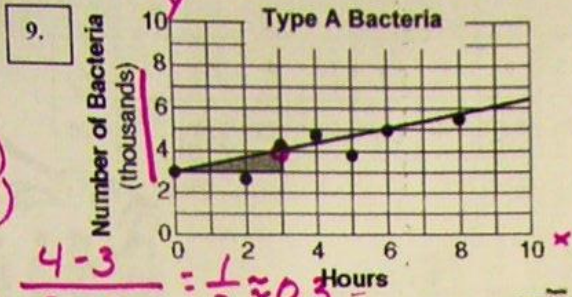


We completed most of page 8 together in class.

For the next two scatter plots, the trend line is drawn and marked. Find the slope and y-intercept and write an equation for the line. Use your equation to answer the question.



(0, 3)  
(3, 4)

$m = \frac{4-3}{3-0} = \frac{1}{3} \approx 0.3$

(decimal)  $m = 0.3, b = 3$

equation:  $y = 0.3x + 3$

The expected number of bacteria after  $x = 10$  10 hours is about 6000

Show work:  
 $y = 0.3(10) + 3$   
 $y = 3 + 3$   
 $y = 6$



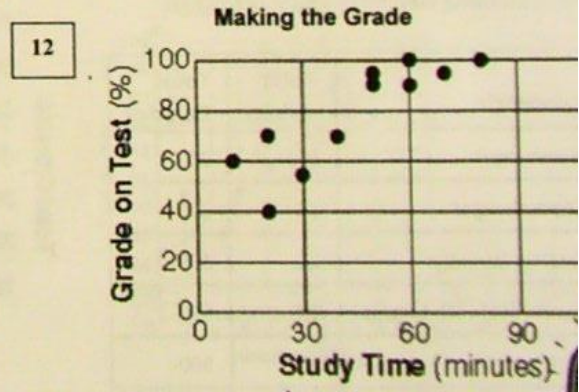
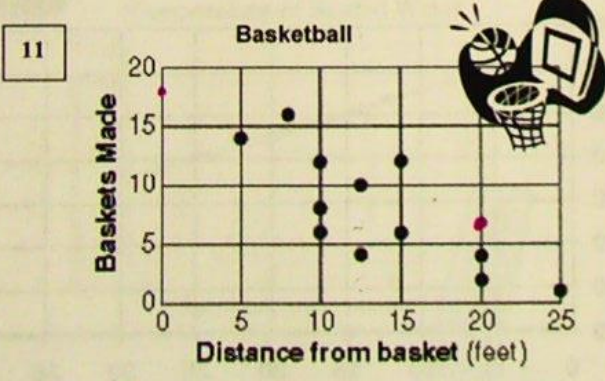
$m = \text{---}, b = \text{---}$

equation: \_\_\_\_\_

The expected number of bacteria after 10 hours is about \_\_\_\_\_

Show work:

For the next two scatter plots, draw an appropriate trend line. State the slope and y-intercept and write an equation for the line. Use your equation to answer the question.



$m = \text{---}, b = \text{---}$

equation: \_\_\_\_\_

The expected number of baskets 10 feet from the basket is about \_\_\_\_\_

Show work:

$m = \text{---}, b = \text{---}$

equation: \_\_\_\_\_

The expected grade average on a test you 45 minutes studying for is about \_\_\_\_\_

Show work: