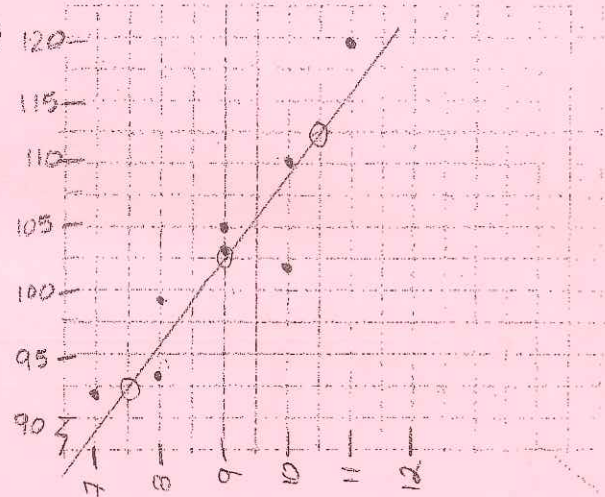


Use the data below about a student's year in school (x) compared to the score the student earned on a college math entrance exam (y).

(8, 99) (10, 110) (9, 103) (7, 92) (8, 93) (9, 105) (11, 120) (10, 102)

1. Make a scatterplot of the information. (2 pt) ✓
2. Draw in your best-fit line. (1 pt) ✓
3. Write the equation of your line; (5 pt)
you must show me your work.



(10.5, 112.5) (9, 102.5)

$$\frac{10}{1.5} = 6.67$$

$$112.5 = 6.67(10.5) + b$$

$Y = 6.67x + 42.47$ me
($Y = 6.33x + 46$) calc.

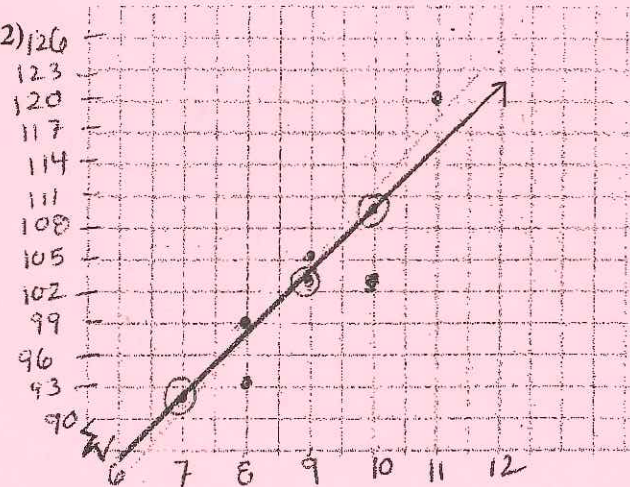
4. If the score on the test was 88, about what grade would you predict for the test taker? (decimal values are OK) (2 pt)

$88 = 6.67x + 42.47$ $9 \text{ or } 6.83$

Use the data below about a student's year in school (x) compared to the score the student earned on a college math entrance exam (y).

(8, 99) (10, 110) (9, 103) (7, 92) (8, 93) (9, 105) (11, 120) (10, 102)

1. Make a scatterplot of the information. (2 pt) ✓
2. Draw in your best-fit line. (1 pt)
3. Write the equation of your line; (5 pt)
you must show me your work.



$$\frac{110 - 92}{10 - 7} = \frac{18}{3} = 6$$

$y = 6x + b$
 $110 = 6(10) + b$
 $50 = b$

$Y = 6x + 50$

4. If the score on the test was 88, about what ~~grade~~ ^{year} would you predict for the test taker? (decimal values are OK) (2 pt)

$88 = 6x + 50$
 $38 = 6x$ 6.33 years