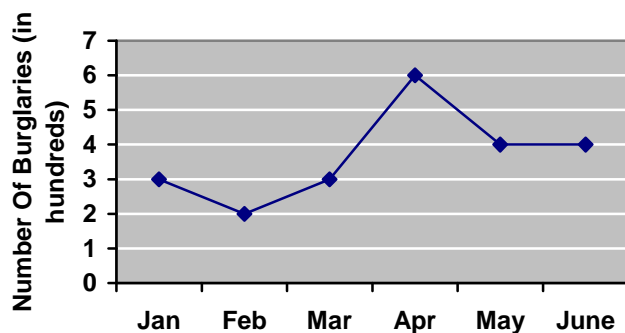


## Worksheet 6

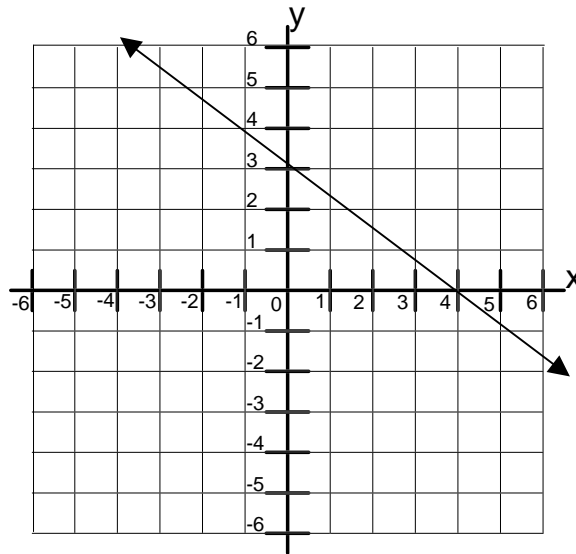
Use the graph below to answer questions 1 - 3.

### Community Burglaries



- Between which two consecutive months was the increase in burglaries the greatest?
  - January and February
  - February and March
  - March and April
  - May and June
- Between which two months was there no change in number of burglaries?
  - January and February
  - February and March
  - March and April
  - May and June
- Find the decrease in the number of burglaries between April and May.
  - 2
  - 10
  - 200
  - 100

Use the following graph for problems 4-6



4. What are the coordinates of the *y*-intercept of the line above?
- A. (3,0)
  - B. (0,3)
  - C. (4,0)
  - D. (0,4)
5. What are the coordinates of the *x*-intercept of the line above?
- A. (-3,0)
  - B. (0,3)
  - C. (-4,0)
  - D. (4,0)
6. What is the equation of the line above?
- A.  $4x - 3y = 12$
  - B.  $4x + 3y = 12$
  - C.  $3x - 4y = 12$
  - D.  $3x + 4y = 12$
7. What is the *x*-intercept of a line whose equation is  $4x - 5y = 40$ ?
- A. (0,10)
  - B. (10,0)
  - C. (8,0)
  - D. (0,8)

8. Which of the following equations has  $(4, 2)$  as one of its solutions?
- A.  $5x - 8y = 4$
  - B.  $5x - 4y = 16$
  - C.  $x + y = 8$
  - D.  $2x + y = 8$
9. What is the *y-intercept* of a line whose equation is  $4x - 5y = -20$
- A.  $(-5, 0)$
  - B.  $(0, -4)$
  - C.  $(5, 0)$
  - D.  $(0, 4)$
10. The difference of two numbers is 14 and twice the smaller number is 5 less than the larger number. Find the numbers.
- A. 4 and 18
  - B. 6 and 17
  - C. 9 and 23
  - D. 14 and 28
11. At Footlocker Shoe Store, with the purchase of any pair of shoes, the second pair of equal or lesser value is given a 50% discount. Lee wants to buy the cross-trainer shoes priced at \$120 and the running shoes priced at \$90. What will be the cost for both pairs of shoes?
- A. \$180
  - B. \$105
  - C. \$150
  - D. \$165
12. The length of a rectangle is 5 more than the width. The area is  $36 \text{ in}^2$ . What equation expresses this relationship? ( $A = l \cdot w$ )
- A.  $5w \cdot l = 36$
  - B.  $w(w + 5) = 36$
  - C.  $l + 5 = 36$
  - D.  $2l + 2w = 36$