

## Algebra Chapter 11 Test Answers

1.  $x = 3, y = 6$
2.  $x = 5, y = 8$
3.  $x = 4, y = 10$
4.  $n = \frac{1}{2}, y = -1$
5.  $n = 1, b = 1$
6.  $n = 2, y = 7$
7.  $x = -3, y = 6$
8.  $k = -4, n = 8$
9. Each night costs \$120  
Each meal costs \$15.50
10. Hats sold = 28    Shirts sold = 12
11. The two equations have the same slope; thus, they are either the same line or the two are parallel and never intersect. Since they have different y intercepts, they can't be the same line; hence, they are parallel and could not have any points in common. That means they have no solutions.
12. Jim = 36    Marty = 12
- 13 – 15.    Come by and see me for solutions.
16. Sold to girls = 42  
Sold to boys = 58
17. Joe's age = 14  
Tom's age = 8
18. Yes. When you plug  $x = 2$  and  $y = 3$  into the two inequalities, both are true.
19. True for all real numbers

20. Never true. No solutions exist.

21. Hotdog = \$3  
Order of fries = \$2  
Coke = \$1