**Solving word problems with Substitution**

Name: Div.: Date:

Solve the following:

1. The number of states in India is 1 more than 4 times the number of states in Australia. There are 19 states more states in India than Australia. How many states are there in Australia?
2. The Average wind speed in Bonavista Newfoundland, is twice the average wind speed in Whitehorse, Yukon Territory. The difference between the wind speeds is 14km/h. What is the average wind speed in Whitehorse?
3. Tickets to the concert cost $9 for adults and $6.50 for students. 950 people paid $7675 to attend. How many students attended the concert?
4. A street vendor sells two types of newspapers, one for 25 cents and the other for 40 cents. If in one day she sold 100 newspapers and took in exactly 28 dollars, how many of the 25-cent newspapers did she sell?
5. Bill is twice as old as Juan. The sum of their ages three years ago was 45 years. How old are they now?
6. Mary looked out of her farmhouse window and saw a group of pigeons and donkeys passing by. She counted all the legs of the pigeons and donkeys and found that the total number of legs add up to 66. How many of each kind of animals (pigeons and donkeys) passed by her window if the total number of animals is 24?
7. A boy ate 100 cookies in five days. Each day he ate 6 more than the day before. How many cookies did he eat on the first day?
8. One neeb and one noob together cost 3 cents. One neeb and one nub together cost 4 cents. One nub and one noob together cost 5 cents. How much does a neeb cost by itself?
9. Simon sells tickets at the theatre. At the end of the evening he has $524 in $2 coins and $5 bills. The total number of coins and bills was 145. How many $2 and $5 coins/bills were there?
10. A garden is 20m by 25m. It is surrounded by a walkway. The outside perimeter of the walkway is 114m. What is the width of the walkway?
11. There are 16 more white keys than black keys on a full sized piano keyboard. There are 88 keys on a piano.
12. Brad has $12 more than Pietro. Together they have $84.
13. Mike is seven years older than Carol. The sum of their ages is 29.
14. The population of Japan is about 4.5 times the population of Canada. The sum of the populations of the two countries is 150 million.
15. Niagara Falls has two parts. The American Falls are 2m higher than the Horseshoe Falls. The average height is 58m.