

MATHEMATICS 10 ASSIGNMENT  
USE ***SUBSTITUTION*** OR ***ELIMINATION*** TO SOLVE

Solve each problem by including the following steps:

1. Write let statements with two variables.
2. Write two equations using the variables from step 1.
3. Simplify and solve for the variables.
4. Plug answer back into let statements.
5. Write a 'therefore' statement which answers your let statements.

Word Problems:

1. Max is 3 years older than Jared. The sum of their ages is 35. How old is each one?
2. Alistair and Shaun played a total of 50 chess games. Alistair won 4 times as many games as Shaun. How many games did each win?
3. Jamie played in 45 tennis matches this year. If she won 5 more than 3 times the number of matches she lost, how many matches did she win and how many did she lose?
4. Alexa scored five more points than twice the number Avery scored. If combined they scored 44 points, how many points did each score?
5. Henry scored four times as many goals as Jack did. If the difference in the number of goals they scored is 51 how many did each score?
6. Alec's age is 28 years less than twice Daniel's age. If their combined age is 116, what is each one's age?
7. Twice Sam's money plus three times Dylan's money equals \$281. Sam has \$47 more than Dylan. How much money does each one have?
8. The sum of two numbers is 137. The first number is 43 more than the second number. What are the numbers?
9. Brandon won \$8,000. He invested part of his winnings in bonds that paid him 7% interest per year and the remainder he placed in GICs which returned 5% and year. If the total interest after one year was \$520, how much money did he invest in each?
10. Eddy was a riverboat captain (Easy Eddy as he was known). He had a river boat which took 4 hours to travel 48 km with the current and 12 hours to travel 48 km against the current. Determine the speed of the boat in still water and the speed of the current.