

Unit 3 - Solving Equations
Day 9 - Modelling with Algebra (Day 1)

Ex. 1 Write an *equation* to represent each sentence. Write a 'let' statement to represent the variable chosen.

a) two times a number plus twelve is twenty.

b) Susan is 8 years older than her brother Tim. The sum of their ages is 82.

c) Find two consecutive odd numbers whose sum is 300.

d) Find three consecutive even numbers whose sum is -66.

e) Jackie, Ainsley and Steph play together on a line on Eastwood's girls hockey team. At the end of the season, Ainsley had scored 10 more goals than Jackie and Steph scored 3 times as many goals as Jackie. The three girls scored a total of 55 goals. How many goals did each girl score?

f) Donna is 4 years older than her sister Jennifer. The sum of their ages is 30. How old are the sisters?

g) The sum of two numbers is 14. Seven times one number minus 3 times the other number is 58. Find the numbers.