

Auntie's age

This task is about using algebraic expressions to find out people's ages.

Ana is 13 and Lachlan is 11 years old. They were trying to guess their aunt's age. Their aunt said,

If you double your age, Ana, and add Lachlan's age; I'm still older than that.



a) Their aunt must be more than how many years old? _____

Their aunt then said,

If you take three times your age, Lachlan, and add Ana's age. I'm not as old as that.

b) Their aunt must be less than how many years old? _____

c) Which expression will give you Lachlan's age if Ana's age is x ?

- (A) $x + 2$
- (B) $x - 2$
- (C) $2x$
- (D) $x/2$

Finally their aunt said,

When I'm 64, I will be exactly the sum of your ages.

d) i) In how many years will this be? _____

ii) What must their aunt's age be now? _____