

## Answer on Question #72155 – Math – Algebra

### Question

Amir is older than Nadeem by 4 years and Danish is younger than Saleem by 4 year. But Saleem's age is  $\frac{1}{4}$ th of Amir. If Danish's Age is 8 years .

- (a) How many time is Nadeem in age to Saleem's age?  
(b) What is the age of Amir, Nadeem, Saleem, and Danish?

### Solution

Let  $A, D, N, S$  be Amir's, Danish's, Nadeem's, Saleem's ages respectively.

Then

$$A = N + 4, D = S - 4, S = \frac{1}{4}A, D = 8.$$

So,

$$S = D + 4 = 8 + 4 = 12,$$

$$A = 4S = 4 \times 12 = 48,$$

$$N = A - 4 = 48 - 4 = 44,$$

$$\frac{N}{S} = \frac{44}{12} = \frac{11}{3}.$$

**Answer:**

(a)  $\frac{N}{S} = \frac{44}{12} = \frac{11}{3};$

(b) Amir's age is  $A = 48$ , Nadeem's age is  $N = 44$ ,  
Saleem's age is  $S = 12$ , Danish's age is  $D = 8$ .

