

**Answer on Question#41677, Math, Other**

Ray and Neil have 17 marbles put together. Ray and Paul have 15 marbles put together. Neil and Paul have 14 marbles. How many marbles does each person have?

**Solution:** Let's say: Ray as  $x$  marbles, Neil has  $y$  marbles and Paul has  $z$  marbles.

$$\begin{cases} x + y = 17 \\ x + z = 15 \\ y + z = 14 \end{cases} \equiv \begin{cases} y = 17 - x \\ z = 15 - x \\ 17 - x + 15 - x = 14 \end{cases}$$

Let's find  $x$  from third expression:

$$-2x = -18$$

$$x = 9$$

From first and second expressions:

$$y = 8, \quad z = 6$$

**Answer: Ray has 9, Neil has 8 and Paul has 6 marbles.**