

## A Maths Question, PSLE 2016

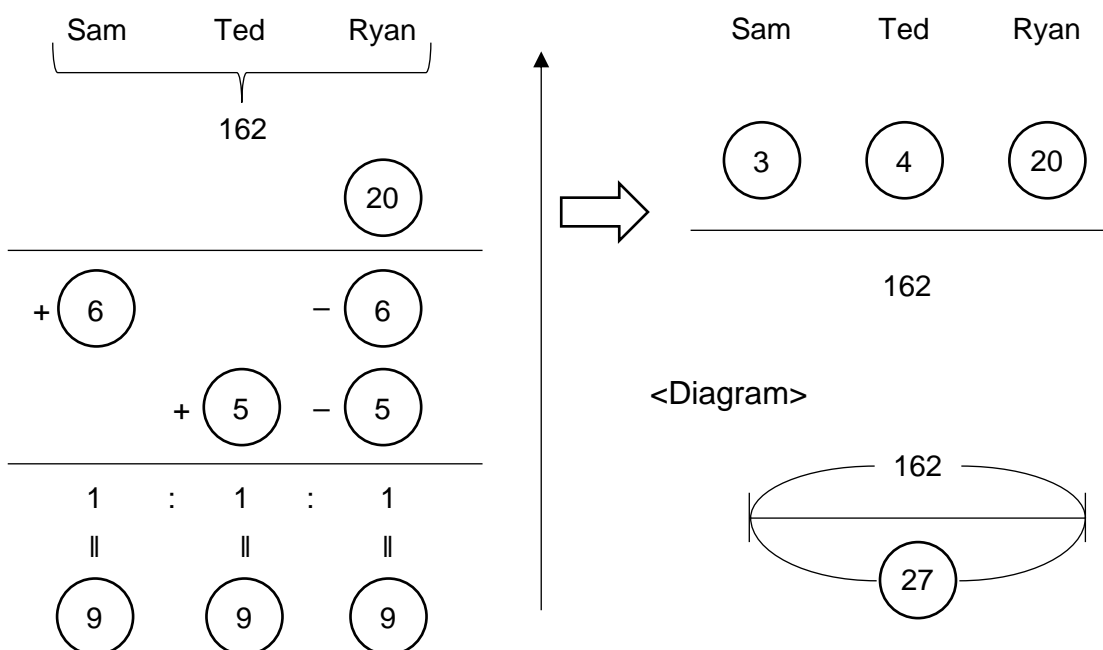
Sam, Ted and Ryan had 162 stickers altogether. Ryan gave  $\frac{3}{10}$  of the stickers to Sam and  $\frac{1}{4}$  of the stickers to Ted. In the end, all of them had the same number of stickers.

- (a) Who had more stickers at first, Sam or Ted?  
 (b) How many more?

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<G.R.>

Let  $\textcircled{20}$  be the number of stickers that Ryan had at first.



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$$\frac{3}{10} \times \textcircled{20} = \textcircled{6}$$

$$\frac{1}{4} \times \textcircled{20} = \textcircled{5}$$

$$\textcircled{20} - \textcircled{6} - \textcircled{5} = \textcircled{9}$$

$$\textcircled{9} - \textcircled{6} = \textcircled{3} \quad \rightarrow \text{Sam at first}$$

$$\textcircled{9} - \textcircled{5} = \textcircled{4} \quad \rightarrow \text{Ted at first}$$

Sam, Ted and Ryan had stickers in the ratio of 3 : 4 : 20 at first.

Therefore, Ted had more stickers than Sam at first by 1 unit ( $\textcircled{1}$ ).  $\rightarrow$  (a)

$162 \div (3 + 4 + 20) = 6 \rightarrow \textcircled{1}$ , Ted had 6 more stickers than Sam at first.

Answer (a) Ted (b) 6