

# Question

Question ID: 886



16. The numbers  $x$ ,  $y$  and  $z$  satisfy the equations

$$x + y + 2z = 850, \quad x + 2y + z = 950, \quad 2x + y + z = 1200.$$

What is their mean?

- A 250      B  $\frac{1000}{3}$       C 750      D 1000      E More information is needed.

0886



©UKMT



## Answer

16. A Adding the three given equations gives  $4(x + y + z) = 3000$ . Therefore  $x + y + z = 750$ . So the mean is  $\frac{750}{3} = 250$ .