ANSWERS

A)   (_____ , _____)

B) _____

C) _____

A) Given: $\begin{cases} 3x - 4y = 10 \\ \dfrac{x}{2} + ky = c \end{cases}$

If $k = a$ and $c \neq b$, these equations are inconsistent, i.e. there is no solution.
Compute the ordered pair (a, b).

B) $\begin{bmatrix} A+B & B+k \\ C+k+3 & C+D \end{bmatrix}$ is the 2 x 2 <u>identity</u> matrix.

Compute $(A - B) + (C - D)$.

C) If each of 4 numbers is added to the average of the other three,
the sums produced are: 26, 30, 38 and 42. Determine the four numbers.