Dolutions of Question on linear Equations

$$\frac{1}{5} \Rightarrow \frac{9-3\kappa}{8} + \frac{3}{4} , \quad \kappa \in \mathbb{N}$$

$$\Rightarrow \frac{112\kappa}{5} \Rightarrow \frac{9-3\kappa}{8}$$

$$\frac{112\kappa}{5} \Rightarrow \frac{9-3\kappa+6}{8}$$

$$\frac{112\kappa}{5} \Rightarrow \frac{15-3\kappa}{8}$$

$$\Rightarrow 896\kappa \Rightarrow 75-15\kappa$$

$$\Rightarrow 911\kappa \Rightarrow 75$$

$$\Rightarrow \kappa \Rightarrow \frac{7}{911}$$

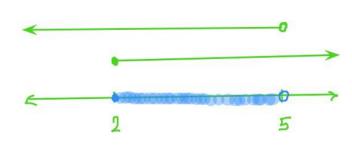
$$\therefore \kappa = 1, 2, 3, 4, - \dots$$

$$(: \kappa \in \mathbb{N})$$

$$\frac{2}{3} \leq \frac{3x-8}{6} < 1\frac{1}{6} , x \in \mathbb{R}$$

$$\Rightarrow \quad -\frac{1}{3} \leq \frac{3\varkappa - 8}{6} < \frac{7}{6}$$

$$\Rightarrow \frac{6}{3} \le \frac{3x}{3} < \frac{15}{3}$$
 { dividing by 3}



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