

$$x-1 < [x] \leq x \dots (1)$$

$$2x-1 < [2x] \leq 2x \dots (2)$$

$$4x-1 < [4x] \leq 4x \dots (3)$$

$$(1) + (2) + (3) \Rightarrow 7x-3 < 102 \leq 7x$$

$$\frac{102}{7} \leq x < 15$$