Question 1.

It is False

Proof: It's known that $(\exists m \in N)(\forall n > 2)(3m + 5n = 12)$ and ~~$(\forall m \in \mathbb{Z})(\exists n \in N)(3m + 5n = 12)$~~ are false.

Thus: $n \leq 2$. ~~and $m \leq 2$~~.

if $n = 1$: $3m = 12 - 5 \times 1 = 7$

$m = \frac{7}{3} \notin N$

if $n = 2$: $3m = 12 - 5 \times 2 = 2$.

$m = \frac{2}{3} \notin N$

Thus. it is proven that this statement is false