

Typo:

Problem in the box

"2. Draw an X through all of the numbers that are solutions to your equation in mod 12. That means if you Xed 2, you should also X 14, 26... "

$4x = 8$ solutions in $\begin{matrix} \text{mod } 5 \\ \text{mod } 12 \end{matrix}$

$4 \cdot 3 = 0$

mod 60

\emptyset \times $\textcircled{2}$ $\cancel{3}$ $\cancel{4}$
 $4 \cdot 3 = 8$
 12
 $2 \neq 3$
 $4 \cdot 7 = 28$
 \downarrow
 3

0	1	2	3	4	5	6	$\textcircled{7}$	8	9	10	11
$\textcircled{12}$	13	14	15	16	17	18	19	20	21	$\textcircled{22}$	23
24	25	26	$\textcircled{27}$	28	29	30	31	32	33	34	35
36	$\textcircled{37}$	38	39	40	41	$\textcircled{42}$	43	44	45	46	47
48	49	50	51	$\textcircled{52}$	53	54	55	56	$\textcircled{57}$	58	59

$4 \cdot 15 = 0$

$x^2 = 2x$ solutions in $\begin{cases} \text{mod } 5 \\ \text{mod } 12 \\ \text{mod } 60 \end{cases}$

2 sol. 4 sol. 6, 8 don't forget these sols

8 sol

0 1 2 3 4 5 6 7 8 9 10 11
 12 13 14 15 16 17 18 19 20 21 22 23
 24 25 26 27 28 29 30 31 32 33 34 35
 36 37 38 39 40 41 42 43 44 45 46 47
 48 49 50 51 52 53 54 55 56 57 58 59