7/25 and 7/5 × 7/5 are not isomorphic because the constant (1)/s) of order 25 byt every element (1)/s) of order 25 byt every element in 7/5 × 7/5 has order 5 or less.

13. Consider  $\varphi: \mathbb{Z}_4 \to \mathbb{Z}_{12}$ , which is given by  $\varphi([a]_4) = [a]_{12}$ . Is  $\varphi$  a function? Explain.

14. Consider  $\varphi: \mathbb{Z}_{12} \to \mathbb{Z}_4$ , which is given by  $\varphi([a]_{12}) = [a]_4$ . Is  $\varphi$  a function? Explain.