A group G give the a slew of maps G - Gm, using just multiplication, duplication, and invarses. What would we call the gadgets that his the same maps are relations between them, except they go Gn - Gm, where the sets on aven't necessarily power sets of G. 2

What For the same, but starting from a group & and its action on a group H (so that the semi-direct product H) XG could be Formed)?