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I will present some results showing that certain analogs of Hindman's Theorem fail, in a very strong sense, when one attempts to obtain uncountable monochromatic sets. Specifically, there is a proper class of cardinals  $\kappa$  satisfying the following statement (which we ad-hoc denote by  $\otimes_\kappa$ ): whenever  $G$  is a commutative cancellative semigroup  $G$  of cardinality  $\kappa$ , there exists a colouring  $c : G \rightarrow \kappa$  such that, for every  $X \subseteq G$  of cardinality  $\kappa$ , every colour  $\alpha < \kappa$ , and every  $n < \omega$ , there exist distinct  $x_0, \dots, x_n \in X$  such that  $c(x_1 + \dots + x_n) = \alpha$ . Additionally, it is consistent with ZFC that  $\otimes_\kappa$  holds for every regular uncountable cardinal  $\kappa$ . (Received August 10, 2016)