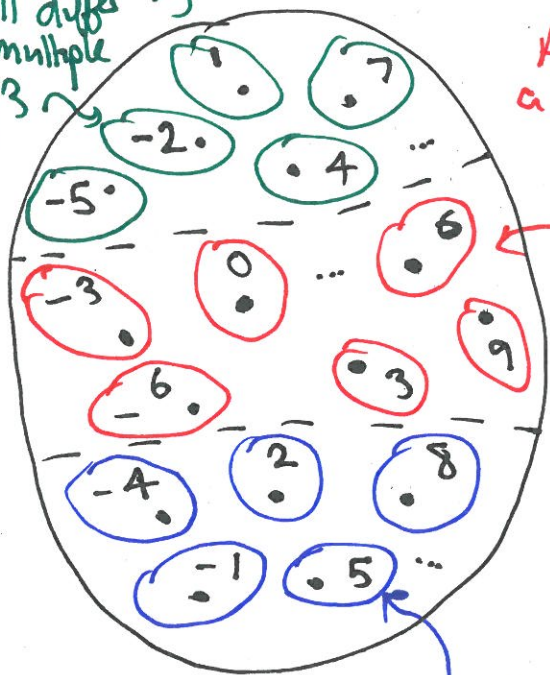


Ring \mathbb{Z} , ideal $I = (3)_{\mathbb{Z}}$ \rightsquigarrow

Quotient ring $\mathbb{Z}/(3)_{\mathbb{Z}} = \mathbb{Z}/3$

All differ by
a multiple
of 3 \rightsquigarrow



All differ by
a multiple of 3

\rightsquigarrow
Collect all equivalent
things into one element

All differ by
a multiple of 3

