Calculating overall ratio (i)

Example:

	5th gear	Final drive
Drive gear	ZG1 = 39	ZA1 = 17
Driven gear	ZG2 = 30	ZA2 = 72

i= Z2: Z1 [1])

iG = Gear ratio = ZG2: ZG1 = 30 : 39 = 0.769

iA = Axle ratio = ZA2 : ZA1 = 72 : 17 = 4.235

iges. = Overall ratio
= iG x iA = 0.769 x 4.235 = 3.257

[1])Z1 = No. of teeth drive gear, Z2 = No. of teeth driven gear