

CUMULATIVE VOTING FORMULAS

if X = Number of **Shares to Elect** a Specific Number of Directors
 S = Total Number of Shares Voted at Meeting
 N = Total Number of Directors to be Elected
 D = Number of Directors Want to (or Can) Elect

$$X > \frac{S * D}{N + 1}$$

$$D < \frac{X * (N + 1)}{S}$$

Examples:

S = 100 shares voted at meeting
 N = 5 directors to be elected

a. If Jones owns **49 shares**, how many directors can he elect?

$$D < \frac{49 * (5 + 1)}{100} = \frac{49 * 6}{100} = \frac{294}{100} = 2.94$$

==> Jones can elect **two directors** (largest number of whole directors **less than** 2.94).

b. If Jones wishes to elect **one director**, what is the minimum number of shares s/he needs?

$$X > \frac{100 * 1}{(5 + 1)} = \frac{100}{6} = 16.666...$$

==> Jones needs **17 shares** (smallest number of whole shares **greater than** 16.666...).

c. Suppose only **3 directors** were to be elected, & Jones wanted to elect **one**?

$$X > \frac{100 * 1}{(3 + 1)} = \frac{100}{4} = 25$$

==> Jones needs **26 shares** (smallest number of whole shares **greater than** 25).