KEY CONCEPT

Each population has a density, a dispersion, and a reproductive strategy.



Population density is the number of individuals that live in a defined area.

- Population density is a measurement of the number of individuals living in a defined space.
- Scientists can calculate population density.

$\frac{\# of individuals}{area (units^2)} = population density$

- Geographic dispersion of a population shows how individuals in a population are spaced.
 - Population dispersion refers to how a population is spread in an area.



There are three types of dispersion.
– clumped



There are three types of dispersion.
uniform



There are three types of dispersion.
– random



- Survivorship curves help to describe the reproductive strategy of a species.
 - A survivorship curve is a diagram showing the number of surviving members over time from a measured set of births.

SURVIVORSHIP DATA			
Age (years)	Deaths	Survivors	% Surviving
0—5	l	35 – 1 = 34	97
6–10	I	34 – 1 = 33	94
11—15	0	33 – 0 = 33	94
16–20		33 – 4 = 29	83
21–25	I	29 – 1 = 28	80

- Survivorship curves can be type I, II or III.
 - Type I—low level of infant mortality and an older population
 - common to large mammals and humans
 - Type II—survivorship rate is equal at all stages of life
 - common to birds and reptiles
 - Type III—very high birth rate, very high infant mortality
 - common to invertebrates and plants

