Name _____ Date _____ Period _____

ZornScience
zornscience.org

Reproductive Strategies

Biology

Answer in complete sentences. Show your work for calculations. Use the graphs and tables as evidence.

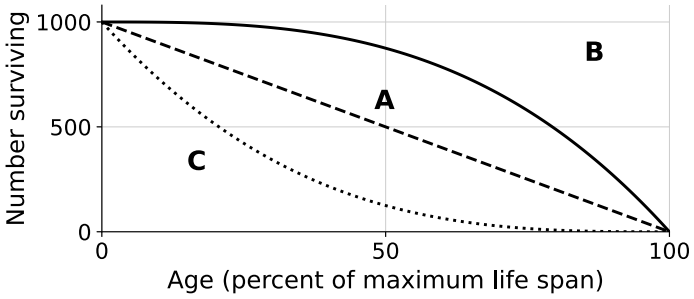
1. A fish releases 8,000 eggs and gives no parental care. Only 0.05% of the eggs survive. A bird raises 3 chicks, and 80% of them survive.

(a) How many fish offspring survive? Show the setup.

(b) How many bird offspring survive? Show the setup.

(c) Which species gives more care to each offspring?

2. The graph shows survivorship curves for three species.



(a) Which curve is Type I, Type II, and Type III?

(b) Which curve shows that most offspring die when young?

CC BY-NC-SA 4.0 | zornscience.org

3. Is each trait closer to the r-strategy or the K-strategy?

Trait	Closer to r-strategy or K-strategy?
(a) Produces thousands of tiny seeds	
(b) Has one calf every 3 to 4 years and cares for it	
(c) Matures in a few weeks	
(d) Lives for many decades	

4. A student says, "A species that makes thousands of offspring is wasting energy, because most of them die." Write a claim, evidence, and reasoning statement that supports or disagrees. Use your results from problem 1.

CC BY-NC-SA 4.0 | zornscience.org