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Darwin's Natural Selection Case Studies

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1) There are 2 types of worms: worms that eat at night (nocturnal) and worms that eat during the day (diurnal). The birds eat during the day and seem to be eating ONLY the diurnal worms. The nocturnal worms are in their burrows during this time. Due to bird predation and other factors, not all worms produced live to the age of reproduction.

a. What worm has natural selection selected AGAINST? Diurnal traits causes more of them to die because they live during the day when the birds are eating/finding food causes them to be the prey of the birds. FOR? Nocturnal traits causes more of them to survive because the birds do not hunt during the night which means that they are safe and have more chances to survive.

Darwin's points: Identify the points in the scenario above.


Overproduction (more offspring produced than survive). Nocturnal worms and diurnal worms will keep reproducing, however, the chances of the diurnal worms surviving will be less than the nocturnal which eventually leads to none of diurnal worms existence.

Population has heritable variation. Nocturnal trait (live at night) and diurnal trait (live in the day)

Struggle to survive The diurnal worms struggle to survive from the predatorial birds.

Differential Reproduction (those with better variation survive and reproduce). The nocturnal worm has better trait because they live during the night and that lead towards them surviving and reproducing more offspring.

How the population will change over time. There will be an increase in nocturnal worms and a decline in diurnal worms.

2)  In ostriches, there are 2 types: ones that run fast and those that run slowly. The fast birds can reach up to 50 miles an hour. Jackals love to eat ostrich, and they can reach speeds of up to 35-40 miles per hour. Due to predation and other factors, not all ostrich produced live to the age of reproduction.

a. What ostrich will natural selection select AGAINST? The slow running Ostriches would have less chance of surviving because the jackals would successfully hunt them. FOR? The faster running Ostriches would have more chance of surviving because the jackals would not be able to catch up towards their speed.

Darwin's points: Identify the points in the scenario above.

Overproduction (more offspring produced than survive). The fast and slow ostriches would keep reproducing, however, the slow ostriches would get extincted due to the fact that it kept declining due to jackals hunting them. On the other hand, the fast ostriches will reproduce more and does not get decline since the jackals aren't able to hunt them down.

Population has heritable variation. Fast ostriches and slow ostriches

Struggle to survive the slow ostriches struggles to survive because the jackals will keep hunting them down.

Differential Reproduction (those with better variation survive and reproduce) The fast ostriches has a better trait because they run faster and does not get hunted easily and leads toward them to reproduce more offsprings.

How the population will change over time. There will be an increase of fast ostriches and the decline of slow ostriches.

3) There are two types of rabbits: those that strictly eat grass and those that strictly eat berries and flowers. A drought occurs one year, and the plants have difficulty producing any extras (flowers, berries, etc.).

COOKED, UNCOOKED

Check if these pancakes are cooked or still uncooked by rewriting these mixed numbers into improper fractions.

1. $5 \frac{6}{8} =$ 2. $3 \frac{1}{4} =$

3. $1 \frac{2}{3} =$ 4. $2 \frac{3}{5} =$

5. $7 \frac{1}{10} =$ 6. $5 \frac{1}{7} =$

7. $9 \frac{4}{7} =$ 8. $11 \frac{2}{6} =$

9. $5 \frac{7}{9} =$

Multiplying Mixed Numbers by Fraction


****R: Metric Conversions Practice**

Directions: Convert the following measurements to the correct unit.

1. 25 cm = 255 mm 6. 122.3 ml = _____ l.
 2. 22 L = 22400 ml 7. 24.2 g = _____ kg
 3. 55.80 kg = 55800000 mg _____ l.
 4. 0.85 mm = 0.00085 m _____ mm
 5. 585.2 ml = 585.2 L

STEPS

STEPS IN DIVIDING NUMBERS BY FRACTION

 A swimming pool is open for $8 \frac{1}{2}$ hours a day. The pool keeps one lifeguard on duty at a time, and each lifeguard's shift is $\frac{4}{6}$ hours long. How many shifts are there per day?

Step 1: Write the given. Convert the mixed number into improper fraction.

Step 2: Write the reciprocal of the divisor, $\frac{6}{4}$, then multiply.

$8 \frac{1}{2} \div \frac{4}{6} = \frac{17}{2} \div \frac{4}{6}$

$\frac{17}{2} \div \frac{4}{6} = \frac{17}{2} \times \frac{6}{4}$

Step 3: Perform the simple multiplication of numerators and denominators.

Step 4: Since the answer is expressed in improper fraction, convert it to a mixed number in lowest term.

$\frac{17}{2} \times \frac{6}{4} = \frac{102}{8}$

$\frac{102}{8} = 12 \frac{6}{8} = 12 \frac{3}{4}$

Dividing Mixed Numbers by Fraction

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