

# ISLE ROYALE MOOSE POPULATION LAB ANSWERS

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**What has happened to the moose population at Isle Royale?** Two wolves walk across frozen ice at Isle Royale. Credit: Rolf Peterson. The estimated moose population for January 2024 was 840, a 14% decrease from the previous year. This decline continued a longer-term trend that began after 2019, with an overall 60% drop in population since then.

**What is the most likely explanation for the increase in the moose population on Isle Royale between 1989 and 1995?** Though there was an increase in wolf resources, other factors such as disease prevented the wolf population growth which in turn made the moose increase in number due to a lack of predator control.

**Is it true or false on Isle Royale the population of moose decreased as the population of wolves decreased?** The populations of wolves and moose on Isle Royale constantly adjust as food availability, weather, and seasons affect the health and reproduction of the animals. Over time, notice as the wolf population declines, the moose population increases and vice versa.

**What is the current population of moose on Isle Royale?** Survey estimates indicated 30 wolves and 840 moose, with the majority of both populations concentrated on the east end of Isle Royale National Park. Michigan Technological University's annual winter study is a major component of the Isle Royale Wolf-Moose project.

**Are there grizzly bears on Isle Royale?** Fun fact: You won't find bears, porcupines or raccoons on the island. Roughly only 18 out of the 40 mammals found on nearby mainlands have called Isle Royale home, now or in the past (in the latter case,

historical data indicates the presence of caribou and lynx).

**Did moose swim to Isle Royale?** The moose are believed to have either swum across Lake Superior from Minnesota in the early 1900s or were stocked on the island by man for the purpose of recreational hunting. In 1949 a few wolves, possibly only a single pair, crossed an ice bridge from Ontario to the island during a harsh winter.

**What is the only predator of moose on Isle Royale?** The only island moose predator is the gray wolf. The fluctuation of wolf numbers impact the overall moose population. A graph showing the relationship between the number of wolves and moose on Isle Royale since 1980.

**Are there still wolves on Isle Royale?** Wolf Relocation and Reproduction Successful on Isle Royale According to a 2024 report, there are approximately 30 wolves on the island, which is the population goal for the park's recovery plan. There are now several wolf packs and new pups, which demonstrate a healthy population.

**Why do you think the moose population declined between 1996 and 1997?** Intense competition for a declining forage, an outbreak of winter ticks, and the severe winter. They all conspired against the moose population which collapsed in 1996.

**What causes the moose population to decrease?** The reasons for the steady decline of moose populations since 1971 are clear: a continuous and unavoidable mortality among adults and a low recruitment of new animals, or yearlings, into the breeding adult population.

**What might happen to the moose population if the wolves were removed from Isle Royale?** What would happen to the moose population if the wolves were removed from Isle Royale? Initially, the moose population would increase due to less predation. However, over time, the moose population would decrease due to competition for food.

**How is the moose population affecting vegetation in the Isle Royale ecosystem?** Moose arrived on Isle Royale in the early 1910s, and altered the island forest vegetation through heavy browse. Moose populations grew to 2000-4000 in

the late 1920s, then collapsed due to starvation and harsh winters. The population recovered after a large wildland fire stimulated forest regeneration.

**How might the change in the moose population have led to the change in the wolf population?** Organisms on lower trophic levels control the population of those on higher trophic levels. For example, fewer moose might mean fewer wolves in the future due to starvation while an increase in moose population might lead to an increase in the survival of wolf pups and hence more wolves in the future.

**What are the causes of population bottlenecks in the Isle Royale wolves?** The Isle Royale wolf population has changed over time since their first immigration in the late 1940s. The wolf population declined drastically in 1980 and again in 2012 due to a combination of events including disease, climate change, random events, and loss of genetic diversity.

**What are four factors that affect population growth?** The four factors that determine population size are birth rate, death rate, emigration, and immigration. Birth rate: It has a positive influence on population growth. If the birth rate increases, the size of the population also increases.

**Are there snakes on Isle Royale?** Researchers in the park have determined that up to 40% of the garter snake population exhibits extreme color variation. Surprisingly, this color variation is very stable and was noted in similar proportions as far back as 1928.

**Are there mountain lions in Isle Royale?** Apart from being an exciting sight for visitors, the gray wolf population on Isle Royale plays a vital role as the park's top predator. Other large predators are absent, NPS says, including bears, coyotes and mountain lions.

**Who owns Isle Royale?** Although Isle Royale is closer to mainland Minnesota, it belongs to the state of Michigan.

**Does anyone live on Isle Royale in the winter?** Humans have never regularly lived year-round on Isle Royale. For at least three thousand years, Native Americans used Isle Royale for copper and fish, but mostly limited their visits to the summer. Nineteenth century Americans did the same. Today, Isle Royale is used for

wilderness recreation, but only in the summer.

**Can you see wolves on Isle Royale?** Isle Royale wolves can be found throughout the island.

**Are there coyotes on Isle Royale?** Lynx and coyotes have been absent from Isle Royale since the early to mid-1900s. Island presence of bears and mountain lions has not been recorded. Wolves became the single island apex predator upon their late 1940s arrival.

**Why is the moose population declining?** Photo by Gjohnstonphoto on iStock. PULLMAN, Wash. — A parasitic worm that can infest the brains of moose appears to be playing a role in the decline of the iconic animal in some regions of North America.

**Did the carrying capacity of moose on Isle Royale change?** Adding 255 moose, 25 years later, the carrying capacity is 598. This is relatively the same as before (600) signifying that the carrying capacity did not drastically change.

**Will I see moose on Isle Royale?** Isle Royale moose can be found throughout the island. In the summer, it is common to see them feeding in inland lakes and beaver ponds.

**What would happen to the moose population if the wolves were removed from Isle Royale or the last 2 died?** What would happen to the moose population if the wolves were removed from Isle Royale? Initially, the moose population would increase due to less predation. However, over time, the moose population would decrease due to competition for food.

## **Statistics Equations: Quick Study Answers**

### **1. Mean**

- Equation:  $(\sum x) / n$
- Question: What is the mean of the following numbers: 2, 4, 6, 8, 10?
- Answer: 6

### **2. Median**

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- Equation: Middle value when ordered from least to greatest
- Question: What is the median of the following numbers: 1, 3, 5, 7, 9?
- Answer: 5

### 3. Mode

- Equation: The value that appears most frequently
- Question: What is the mode of the following numbers: 2, 4, 4, 6, 8?
- Answer: 4

### 4. Standard Deviation

- Equation:  $\sqrt{[(x - \bar{x})^2] / (n - 1)}$
- Question: What is the standard deviation of the following numbers: 2, 4, 6, 8, 10?
- Answer: 2.83

### 5. Z-Score

- Equation:  $(x - \bar{x}) / s$
- Question: What is the Z-score for a data point that is 2 standard deviations below the mean?
- Answer: -2

## Study Guide for Geometry: Houghton Mifflin Answer Key

### 1. What is a geometric figure with four equal sides and four right angles?

- Answer: Square

### 2. What is the relationship between the circumference of a circle and its diameter?

- Answer: Circumference =  $\pi$  \* diameter

**3. What is the volume of a sphere with a radius of 5 inches?**

- Answer:  $\frac{4}{3} \pi (5)^3 \approx 524$  cubic inches

**4. What is the Pythagorean theorem and how is it used?**

- Answer:  $a^2 + b^2 = c^2$ , where  $a$  and  $b$  are the lengths of the two legs of a right triangle and  $c$  is the length of the hypotenuse. It is used to find the length of missing sides of right triangles.

**5. What is the formula for the area of a triangle?**

- Answer:  $\text{Area} = \frac{1}{2} \text{ base } \times \text{ height}$

**What is the moral of the story "Lost and Found"?** In *Lost and Found*, the importance of each other's company is evident- as much as to not feel lonely as to rid oneself of solitude. Friendship, the care that it implies and feeling accompanied by others are fundamental for maintaining our emotional well-being.

**What age is lost and found Oliver Jeffers for?**

**What is the story "Lost and Found" about?** This is the endearing story of a boy and the journey he undertakes to return a lost penguin to its South Pole home. This simple story with beautiful illustrations is a popular choice for children in the preschool years and beyond.

**What age is lost and found for?** Parents need to know that *Lost and Found* is an adaptation of award-winning author/illustrator Oliver Jeffers' 2005 picture book about a boy who finds a penguin on his doorstep. As with the book, the 30-minute movie targets preschoolers and young elementary schoolers who will appreciate the young boy and...

**What is the moral in *Lost and Found* by Oliver Jeffers?** The importance of stories – for connection and communication – is *Lost and Found*'s central theme, both on the page and now the stage. 'Storytelling is one of the most important creative

outlets we have as humans', Oliver Jeffers says.

**What is the main idea of lost and found?** Writer Kathryn Schulz's 'Lost & Found' is a tale of loss and discovery. Lost & Found is as much a philosophical reckoning with the experiences of losing and finding as it is a record of New Yorker writer Kathryn Schulz's personal grief and love stories.

**How many books are in the Lost and Found series?** Each book will follow the story of an antique, and its hidden secrets, lies, and often dangerous past. The sordid history of anything misplaced, lost, moved or forgotten, might be discovered if Cullen lets Luna have her way. As of this date, September 1, 2022 there will be a minimum of 4 books in the series.

**Do you have to read the Lost and Found series in order?** In terms of ranking her works and series, all of them can be read out of order, although normally characters from one series will show up in other series.

**Where can I watch the lost and found short film?** Lost and Found - Apple TV.

**What is lost and found about short summary?** a small unnamed boy finds an unexpected visitor at his door, a small lost penguin. he cannot keep the penguin as it is too curious, and he is determined to bring it back to his home again.

**What is the true story of life lost and found?** The true story of a life lost and found. . . A five-year-old Indian boy gets lost on the streets of Calcutta, thousands of kilometers from home. He survives many challenges before being adopted by a couple in Australia; 25 years later, he sets out to find his lost family.

**Why is the lost and found called the lost and found?** It's called "lost and found" because if someone hadn't found them the property wouldn't have been brought to the storage location that is called "lost and found." They'd be somewhere in the streets, still lost.

**Is Lost appropriate for 14 year olds?** A great show! I'm saying 14+ because there's a lot of thinking needed in this show. This title has: Great messages.

**What age is girl missing for?**

## **How many pages are in Lost and Found?**

**What is the synopsis of Lost and Found by Oliver Jeffers?** Book overview There once was a boy... and one day a penguin arrives on his doorstep. The boy decides the penguin must be lost and tries to return him. But no one seems to be missing a penguin. So the boy decides to take the penguin home himself, and they set out in his row boat on a journey to the South Pole.

**What is the theme of Lost and Found by Oliver Jeffers?** Illustrated in Jeffers' inimitable style, it is a visual delight, and its themes of loneliness and friendship will resonate with children.

**What is the story behind the lost and found?** This endearing book has a straightforward storyline about a boy who finds a penguin at his door and tries very hard to help the penguin return to his home at the South Pole. The boy first assumes the penguin is sad because he wants to go home, but he eventually realizes that what the penguin really wants is a friend.

**What happened at the end of Lost and Found?** John pushes Mark into the sea and gets pushed by Andy. Jim and Trent pull them onto their boat, while John dies. Claire leaves the island, while Trent and Andy, and the Waltons reconcile.

**What is the lost and found memoir about?** Eighteen months before Kathryn Schulz's beloved father died of cancer at the age of 74, she met the woman she would marry. In *Lost & Found*, she weaves the stories of those relationships into an exploration of how all our lives are shaped by both loss and discovery.

**What is the purpose of a lost and found?** A lost and found (American English) or lost property (British English), or lost articles (also Canadian English) is an office in a public building or area where people can go to retrieve lost articles that may have been found by others.

**What is the book of lost and found about?** Kate Darling's enigmatic mother — a once-famous ballerina — has passed away, leaving Kate bereft. When her grandmother falls ill and bequeaths to Kate a small portrait of a woman who bears a striking resemblance to Kate's mother, Kate uncovers a mystery that may upend everything she thought she knew.

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**Is Lost and Found a series?** Lost & Found (TV Series 2017– ) - IMDb.

**Is The Summer of Lost and Found part of a series?** The Summer of Lost and Found - Mary Alice Monroe. The nationally bestselling Beach House series returns with this tender and compassionate novel following the historic Rutledge family of Charleston, South Carolina as they face a summer of upheaval and change with perseverance, a spirit of unity, and a dose of humor.

**Is The Lost and Found bookshop part of a series?** The Lost and Found Bookshop (Bella Vista Chronicles, book 3) by Susan Wiggs.

**Are Catherine Cowles books interconnected?** Her series can be read independently of each other, but there is some very minor character crossover. If you want to read them in order, start from the bottom of the list below, and enjoy!

**What was Lucy Score's first book?** Undercover Love (2015) Why we love it: - The first novel written by Lucy Score. - Amazing chemistry between the main characters that builds throughout with an epilogue to leave you with all the warm, fuzzy feelings.

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