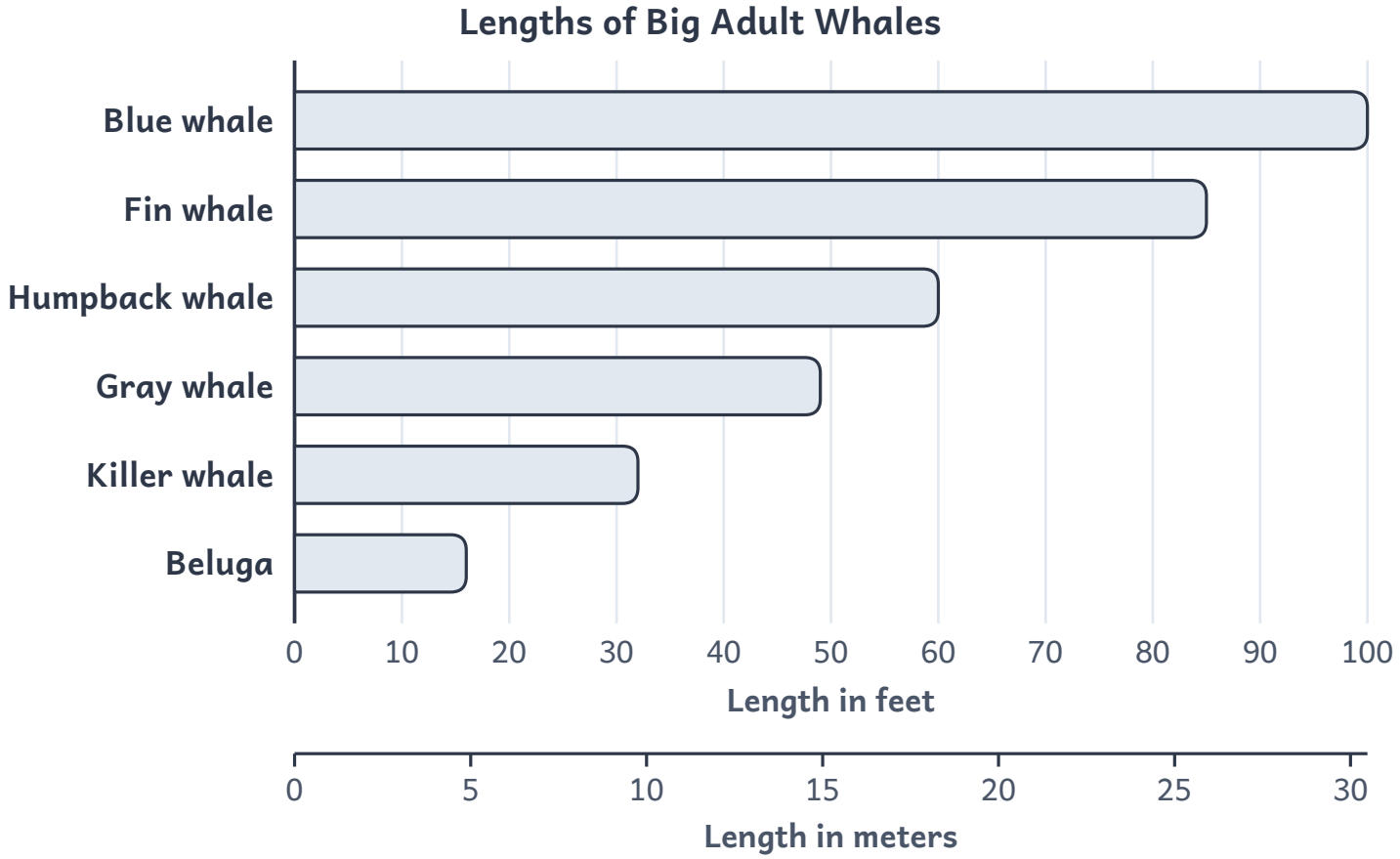
Name _____ Date _____

Charts, Graphs and Time Lines

Read the text and the bar graph. Then answer the questions.

How Long Is a Whale?

Whales come in many sizes. The blue whale is the largest animal that has ever lived. It can grow to about 100 feet (30 meters) long, longer than a basketball court. Other whales are much smaller. A beluga grows only to about 16 feet (5 meters). The bar graph shows about how long a big adult of each kind can grow. Read its lengths in feet on the top scale and in meters on the bottom scale.



1. About how much longer is a blue whale than a humpback whale?

about 20 feet about 60 feet about 40 feet

2. Which whale can grow to about 15 meters long? Use the meters scale.

beluga fin whale gray whale

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Name _____ Date _____

Charts, Graphs and Time Lines

Answer the questions about the whales. Look back at the text and the figures.

3. What does the bar graph show that the text does not?

4. About how many killer whales, lined up nose to tail, would be as long as one blue whale? Explain how the graph helps.

5. Why do you think the graph shows two scales, one in feet and one in meters?

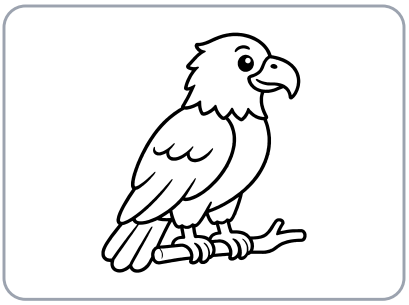
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Name _____ Date _____

Charts, Graphs and Time Lines

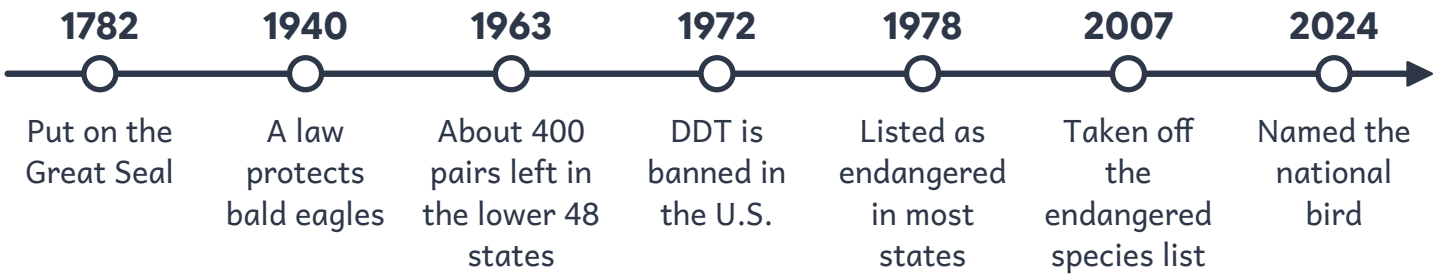
Read the text and the time line. Then answer the questions.

The Bald Eagle's Comeback



The bald eagle became a symbol of the United States in 1782, when it was placed on the country's Great Seal. Bald eagles once nested across much of North America. But over the years, their numbers fell. People shot them, and many tall trees near water, where eagles build their nests, were cut down.

Then came a chemical called DDT, which was sprayed to kill insects. It washed into rivers and lakes and built up in the fish that eagles eat. It made the shells of the eagles' eggs so thin that they cracked when the parents sat on them. People worked hard to save the bald eagle, and it slowly came back. The time line shows some of the steps.



1. In what year was DDT banned in the United States?

1963 1972 2007

2. How many years passed between the ban on DDT and the day the bald eagle came off the endangered list?

_____

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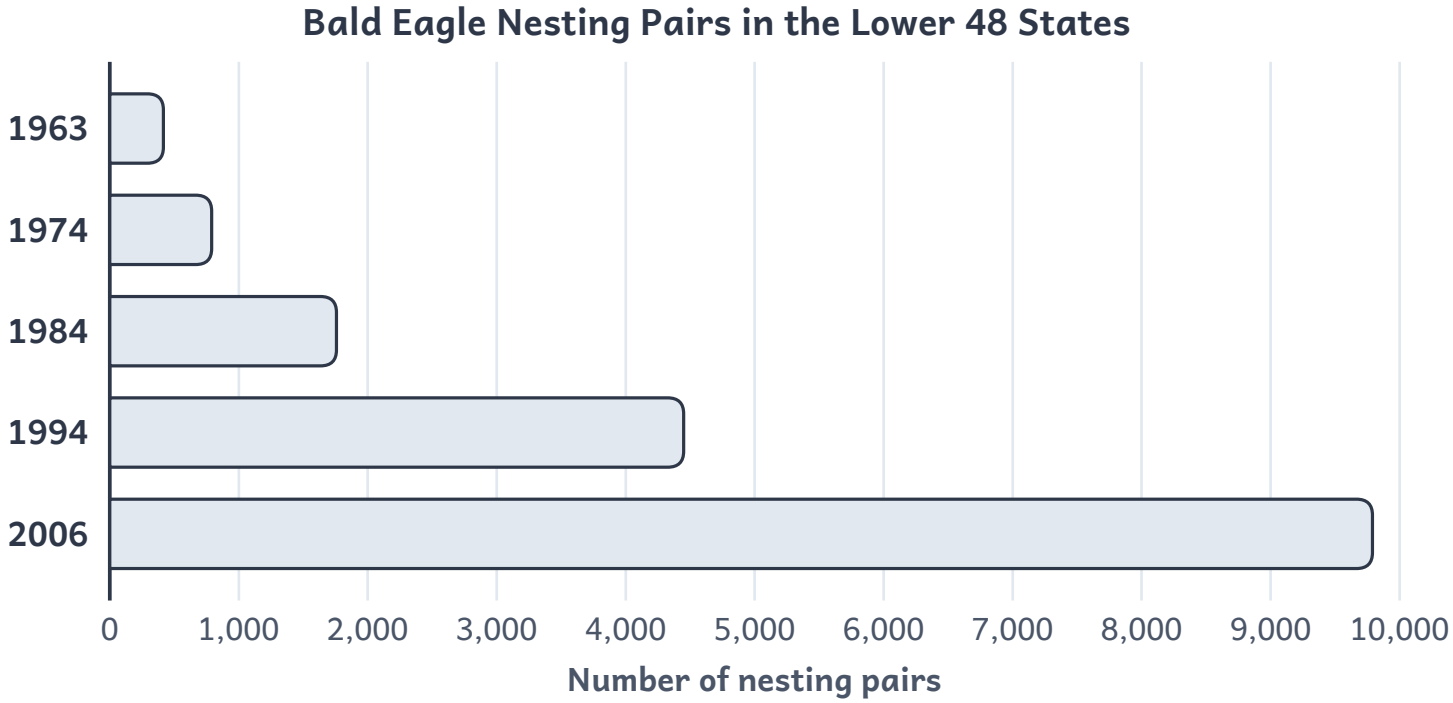
Name _____ Date _____

Charts, Graphs and Time Lines

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Counting Eagles

Were bald eagles coming back? To find out, scientists counted their nests. Every few years, they counted the nesting pairs in the lower 48 states. A nesting pair is a male and a female that build a nest and raise their chicks together. The bar graph shows some of the counts, starting in the year with the lowest count and ending the year before they came off the endangered list.



1. About how many nesting pairs were there in 2006?

about 1,000 about 5,000 about 10,000

2. Between which two counts did the number grow the most?

_____

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Name _____ Date _____

Charts, Graphs and Time Lines

Answer the questions about the bald eagle. Look back at the text and the figures.

3. Name one event on the time line that the text does not tell about.

_____

_____

4. Why did eagle eggs crack? Does the text or the time line tell you?

_____

_____

5. What does the bar graph show about the bald eagle's comeback that the words alone do not?

_____

_____

_____

6. Use the time line and the bar graph together. About how many nesting pairs were there two years after DDT was banned?

_____

_____

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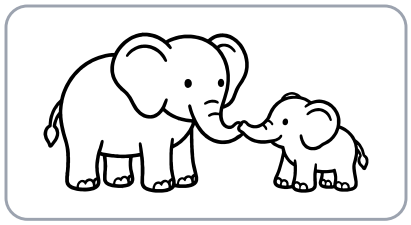
Name _____ Date _____

Charts, Graphs and Time Lines

Read the text and the table. Then answer the questions.

Waiting to Be Born

Before a mammal is born, it grows inside its mother's body. A mouse is born only about three weeks after it starts to grow. An African elephant grows inside its mother for about 22 months, almost two years! That is longer than any other mammal.



Scientists see a pattern. Most of the time, bigger animals take longer to grow before they are born. The table lets you compare some mammals.

Animal	Time before birth	Animal	Time before birth
African elephant	22 months	Dog	2 months
Giraffe	15 months	Rabbit	1 month
Horse	11 months	Mouse	3 weeks
Person	9 months		

1. Which animal in the table grows for about 15 months before it is born?

dog giraffe horse

2. About how much longer does a horse grow before it is born than a person?

2 months 9 months 20 months

3. Does the table support the pattern in the text? Explain, using two animals from the table.

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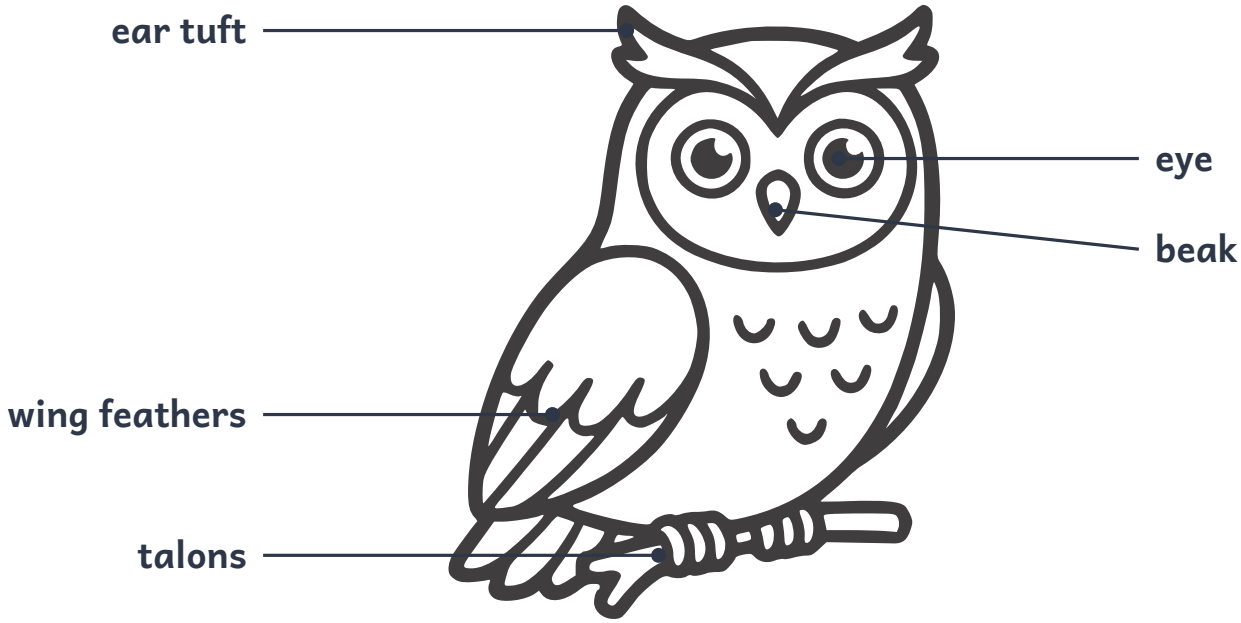
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Charts, Graphs and Time Lines

Read the text and study the diagram. Then answer the questions.

Built for Hunting at Night

Great horned owls hunt at night, and their bodies are full of tools for the job. The two feathered points on top of the head are called ear tufts, but they are not ears at all. They are just feathers. The owl's real ears are openings hidden under the feathers on the sides of its face. Its huge eyes face forward and gather lots of light, so it can see well in the dark. Its eyes cannot move, so it turns its whole head instead. Soft edges on its wing feathers let it fly almost silently. Its sharp, curved claws, called talons, grab its prey, and its hooked beak tears up bigger prey.



1. Which part looks like an ear but is only feathers?

a talon the beak an ear tuft

2. Where are an owl's real ears? Does the diagram show them?

_____

_____

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Name _____ Date _____

Charts, Graphs and Time Lines

Read a text with a chart, graph, time line or diagram. Tell what each one adds.

Title

What kind of figure is it?

What the words tell

What the figure shows

Something I learned only from the figure

How the words and the figure help me together

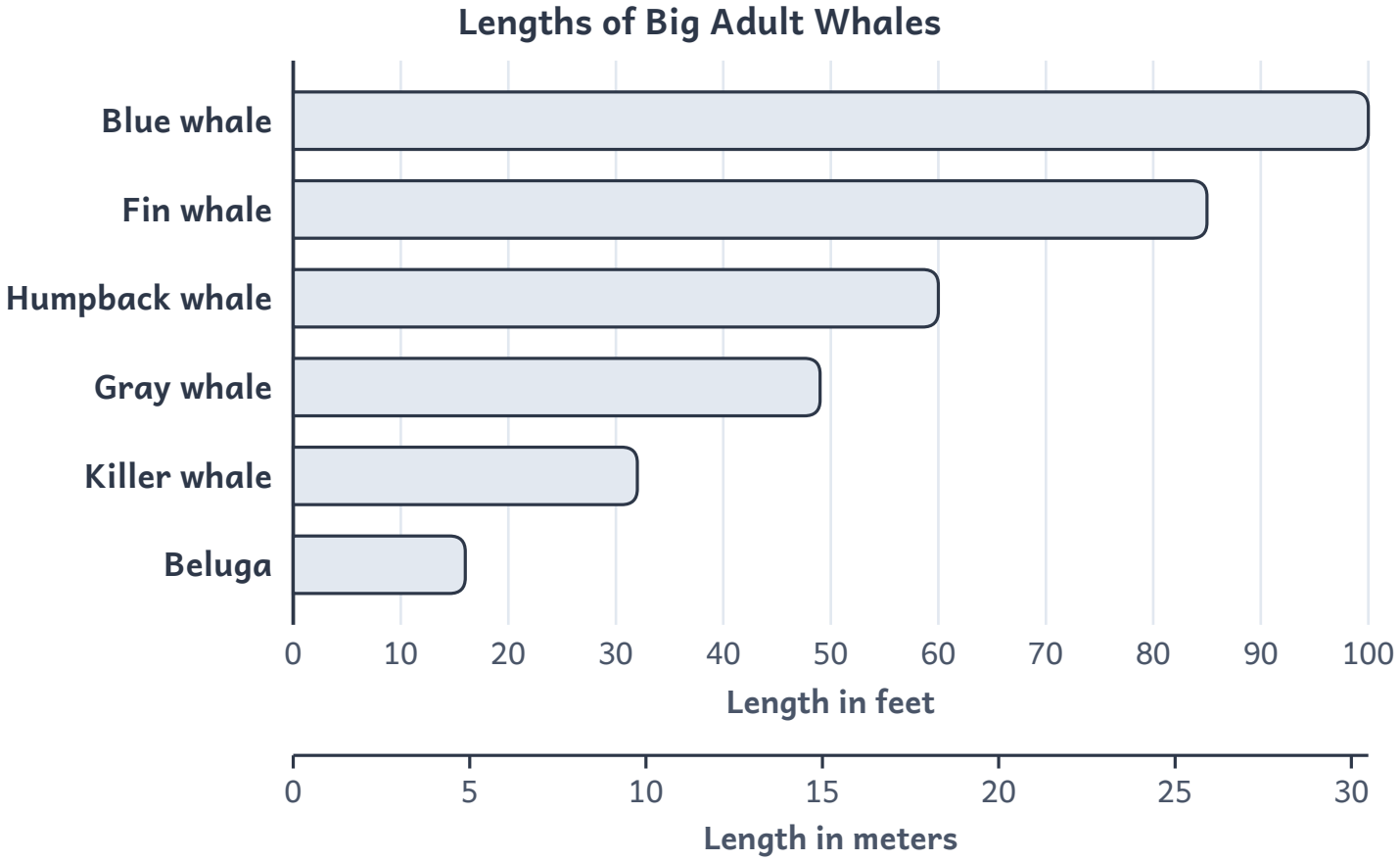
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about 20 feet about 60 feet about 40 feet

2. Which whale can grow to about 15 meters long? Use the meters scale.

beluga fin whale gray whale

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Charts, Graphs and Time Lines

Answer the questions about the whales. Look back at the text and the figures.

3. What does the bar graph show that the text does not?

How long the fin, humpback, gray and killer whales grow, so you can compare all six kinds at once.

4. About how many killer whales, lined up nose to tail, would be as long as one blue whale? Explain how the graph helps.

About 3, because a killer whale is about 32 feet and a blue whale is about 100 feet.

5. Why do you think the graph shows two scales, one in feet and one in meters?

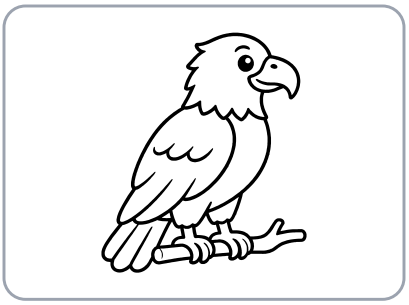
So people who measure in feet and people who measure in meters can both read it.

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Charts, Graphs and Time Lines

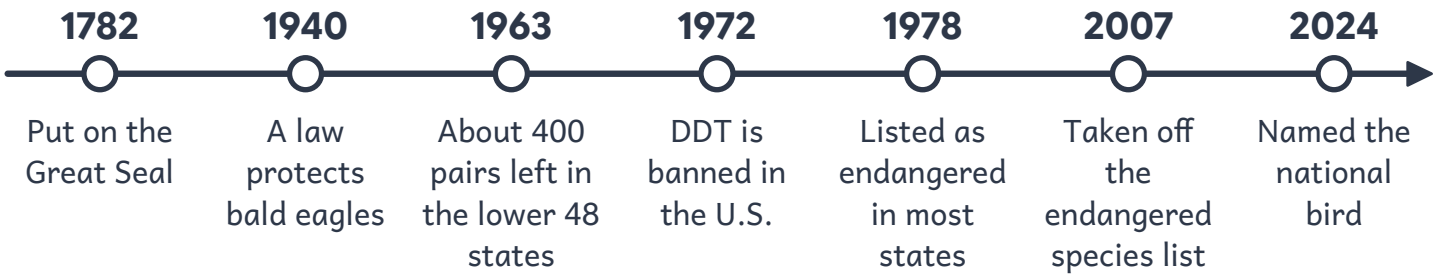
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Then came a chemical called DDT, which was sprayed to kill insects. It washed into rivers and lakes and built up in the fish that eagles eat. It made the shells of the eagles' eggs so thin that they cracked when the parents sat on them. People worked hard to save the bald eagle, and it slowly came back. The time line shows some of the steps.



1. In what year was DDT banned in the United States?

1963 (1972) 2007

2. How many years passed between the ban on DDT and the day the bald eagle came off the endangered list?

35 years (2007 - 1972 = 35)

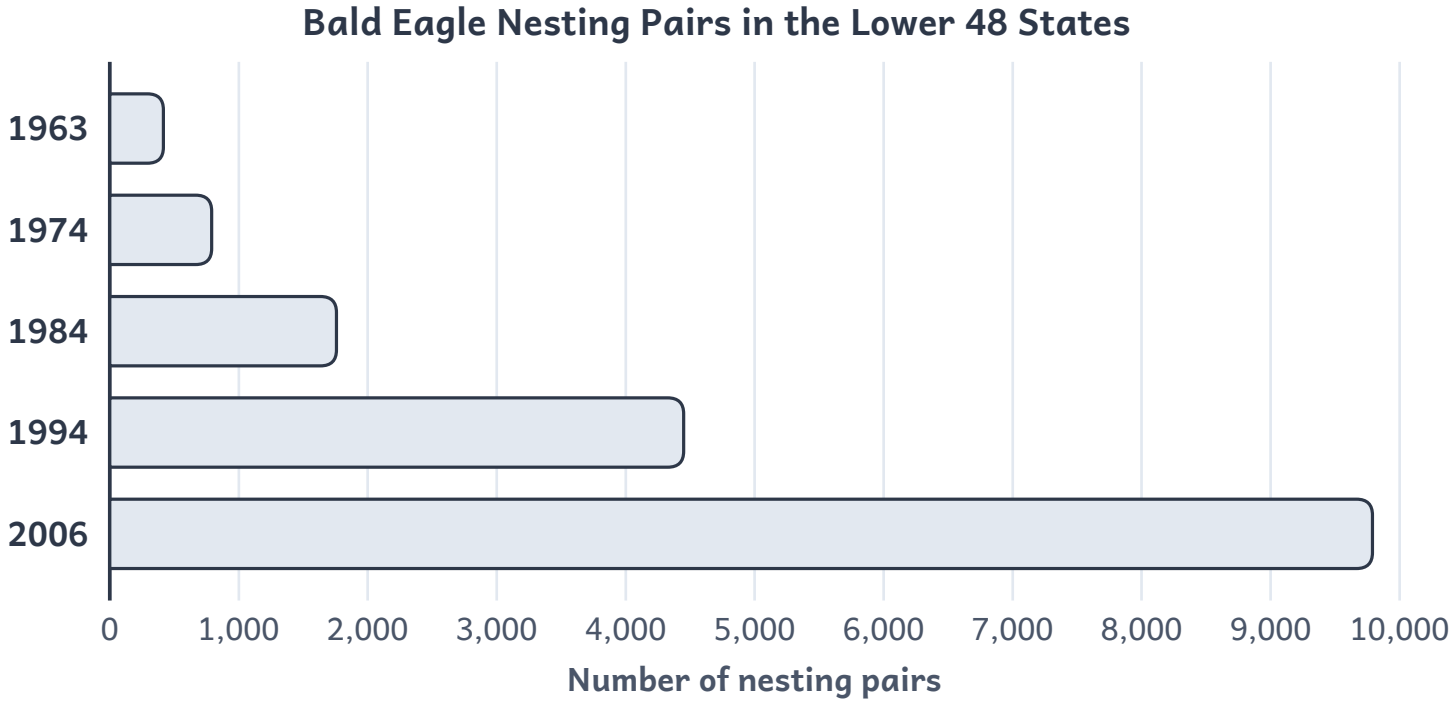
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1. About how many nesting pairs were there in 2006?

about 1,000 about 5,000 about 10,000

2. Between which two counts did the number grow the most?

between 1994 and 2006

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Charts, Graphs and Time Lines

Answer the questions about the bald eagle. Look back at the text and the figures.

3. Name one event on the time line that the text does not tell about.

In 1940, a law was passed to protect bald eagles.

4. Why did eagle eggs crack? Does the text or the time line tell you?

DDT made the shells so thin that they cracked. The text tells me.

5. What does the bar graph show about the bald eagle's comeback that the words alone do not?

It shows how slowly the eagles came back at first, and how much faster their numbers grew later.

6. Use the time line and the bar graph together. About how many nesting pairs were there two years after DDT was banned?

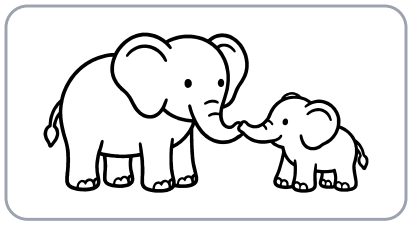
About 800 (791 pairs in 1974).

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Charts, Graphs and Time Lines

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Waiting to Be Born



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Horse	11 months	Mouse	3 weeks
Person	9 months		

1. Which animal in the table grows for about 15 months before it is born?

dog (giraffe) horse

2. About how much longer does a horse grow before it is born than a person?

(2 months) 9 months 20 months

3. Does the table support the pattern in the text? Explain, using two animals from the table.

Yes. The elephant is the biggest and takes 22 months, and the mouse is the smallest and takes only 3 weeks.

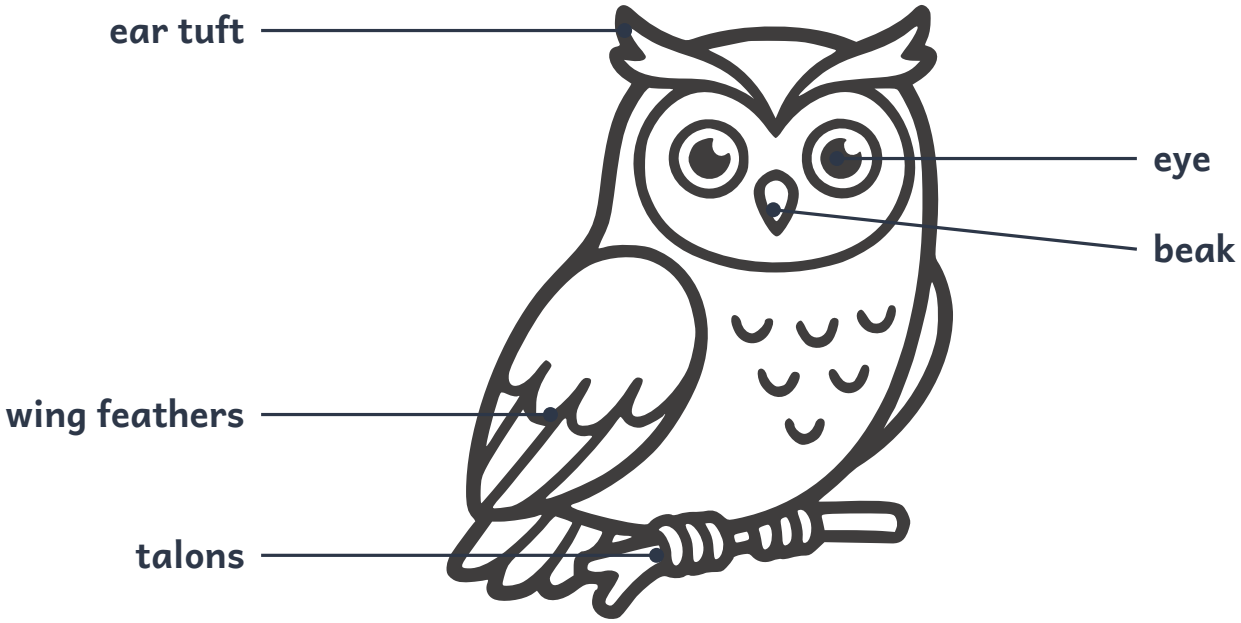
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1. Which part looks like an ear but is only feathers?

a talon the beak an ear tuft

2. Where are an owl's real ears? Does the diagram show them?

Hidden under the feathers on the sides of its face. No, the diagram does not show them.

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