

Whose hand is this? Paleontologists have been seeking an answer for over 40 years. In the 1960s, paleontologists discovered a pair of giant arms in Ömnögovi, an area in southern Mongolia. The length

of each arm, when fully extended, was 2.4 meters (eight feet)! The claws were over 25 centimeters (ten inches) long. Paleontologists called the animal *Deinocheirus* (meaning "terrible hand").

So what did this animal look like? Paleontologists aren't sure.

Scientists have examined the area many times. But since the original discovery, they have dug up only a few other bones of this dinosaur.

dig dug dug

Despite this, scientists have some ideas about *Deinocheirus*'s appearance. Physically, its arms and hands were similar to *ornithomimids*—a type of dinosaur that looked like a modern-day ostrich.¹ It probably used its arms for catching food. Paleontologists used *Deinocheirus*'s arms to estimate its body size. The results were amazing. *Deinocheirus* was perhaps a huge animal—almost 12 meters (40 feet) long. This is almost as big as a *T. rex*!

Other scientists have a different opinion. They think Deinocheirus was a smaller dinosaur with extremely long arms. But why would a little animal need limbs² so long? To climb trees or to hunt for food, perhaps? "The body is a mystery," says Thomas Holtz, a paleontologist at the University of Maryland in the U.S. "It might not be an ornithomimid at all. But then what is it?" Until paleontologists find new fossil evidence, they will continue to ask this question.

1 An ostrich is a very large bird that cannot fly.

Unit 78 101



² Your limbs are your arms and legs.

Reading Comprehension

Multiple Choice. Choose the best answer for each question.

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- 1. What is the main purpose of the reading?
 - a. to explain how paleontologists find dinosaur fossils
 - b. to compare T. rex and Deinocheirus
 - c. to talk about different dinosaur discoveries in Mongolia
 - d. to describe an unusual type of dinosaur

Detail

- 2. Which of these can we definitely say about Deinocheirus?
 - a. Its body was the same size as that of T. Rex.
 - b. Scientists believe its body was very small but with very long arms.
 - c. Its body was the same size as that of an ostrich.
 - d. Scientists are still trying to find out the size of its body.

Paraphrase

- 3. In lines 9–10, it says, But since the original discovery, they have dug up only a few other bones of this dinosaur. What does this mean?
 - Only a few bones were found in the original discovery.
 - b. The dinosaur found in the original discovery didn't have many bones.
 - c. They haven't found very many bones since the original discovery.
 - d. They have found no new bones since the original discovery.

Reference

- 4. What does this refer to in line 17?
 - a. Deinocheirus' leg bone
 - b. a modern-day ostrich
 - c. the length of Deinocheirus' arm
 - d. Deinocheirus' body size

Main Idea

- 5. The main idea of the third paragraph is that Deinocheirus
 - a. may have had a very large body
 - b. was a very small dinosaur
 - c. was probably not an ornithomimid
 - d. probably lived in tall trees

Vocabulary

- 6. What does the word evidence mean in line 24?
 - a. information
 - b. questions
 - c. mysteries
 - d. belief:

Inference

- 7. Which statement would Thomas Holtz probably agree with?
 - a. Deinocheirus was an ornithomimid.
 - b. Scientists have a clear idea of what Deinocheirus looked like.
 - c. Deinocheirus was probably larger than T. rex.
 - d. There is still a lot we don't know about Deinocheirus.



Did You Know?

Also known as "Elvisaurus," Cryolophosaurus had a head crest that was similar to Elvis Presley's 1950s haircut.



Using Definitions to Find Meaning

You will often find new words and phrases in a text. Some of these may be defined in the text. Certain words signal a definition, for example, is, means, refers to, and is called. Definitions can also be set off by certain punctuation: dashes —, parentheses (), commas,, or quotation marks "". These may also signal extra information about people or places in the text.

For example: Dinosaurs, which means "terrible lizards," lived millions of years ago. Ostriches large flightless birds, live in Africa. Nessie is physically similar to a type of plesiosaur—a sea reptile with a very long neck.

A.	Completion.	Complete	these	sentences	with	definitions	from	the box	(a-d	١
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	a. an animal with two feet c. the length of time it lived	b. the world's most complete <i>T. rex</i> skeletond. "tyrant lizard"
		in Greek. Rex means "king" in Latin. efers to Its arms were very small.
	3. Based on fossils, a T. rex's l 4. Tyrannosaurus Sue, Sue Hendrickson in 1990.	ifespan—was about 30 years. , was found by fossil hunter
В.		e definitions in the reading on page 101 to answe
	1. What is Ömnögovi?	
	What is Ömnögovi? What does the name Deine	ocheirus mean?

Critical Thinking Discuss with a partner. Deinocheirus was discovered in Mongolia. Where do you think future dinosaur discoveries will be made? Why?

Vocabulary Practice

W	ords in Contex	t. Complete	each sentence	with the co	rrect answer		
1.	If you examin	e something,	you				
	a. look at it qui	ickly	b. study it	closely			
2.	A mystery is s	omething you	expla	in.			
	a. can		b. cannot				
3.	An example of	an opinion is	3				
	a. "Dinosaurs v	vere reptiles."	b. "Dinosau	irs are very	interesting."		
4.	If something is	The second secon	MALE STREET, S				
	a. bad or afraid	i	b. happy or	r relaxed			
5.	You dig up son	nething that is	the s	urface.			
	a. above		b. below				
Co	ompletion. Co	nplete the info	ormation using	g the correct	form of wo	ords	
fro	om the box. One	word is extra.					
	ALCO ALCO ALCO ALCO ALCO ALCO ALCO ALCO				Township.	anal.	
	The largest ever pterosaur (or " wings were 1.	er flying anima flying reptile"	al lived 85 mill called Quetz , eac	ion years ag zalcoatlus. V ch was abou	o. It was a t Vhen this ar It 12 meters	type of nimal's	
	The largest eve pterosaur (or "	er flying anima flying reptile" ne 2 ne from a sma rs, paleontolo	al lived 85 mill) called Queta, eac	ion years ag zalcoatlus. V th was abou of some ai nd how did	o. It was a t When this ar It 12 meters Irplanes! But pterosaurs!	type of nimal's (40 t did	
	The largest ever pterosaur (or " wings were 1. feet). That is the pterosaurs come to fly? For year answers to the Recently, one of in China by a te paleontologists pterosaur (called	er flying animal flying reptile" ne 2 ne from a smales, paleontologies questions. of the smallest eam of Chine in 4 et similar to the	al lived 85 mill) called Queta , each ller animal? A gists have bee t pterosaurs w se and Brazilia s) was a small	ion years ag zalcoatlus. V ch was abou _ of some ai nd how did en 3 ras discovere in, the tiny _ toothless Scientists	to. It was a to When this are to 12 meters inplanes! But pterosaurs I	type of nimal's (40 t did	Quetzalcoatlus was the largest animal ever to fi

VIEWING Dinosaur Discovery

Before You Watch

A. Labeling. Label the picture using the words in the box. One word is extra. Use a dictionary to help you.

backbone	neck	rib	tail	skull	vertebrae
e de		man .	_		
2	MIT	•	Millian	> 1 2	
	TY V	1		3	
A. C.		1		4	
ACT TO SEE				5.	

- B. Predict. Look at the video title, the map, and the picture and words in A. What do you think the video will be about?
 - a. a new dinosaur fossil that has been found
 - b. new research on what dinosaurs ate
 - c. how to identify dinosaur bones



While You Watch

- A. True or False? Read the statements below. As you watch the video, circle whether they are T (true) or F (false).
 - 1. The area where the bones were found used to be a desert. T F
 - 2. Juan Pablo Garcia found the Sabinasaurio bones by accident. T F
 - 3. This is the first time that fossils have been found in the area. T F
 - Local people hope that more dinosaur lovers will visit T F
 their region.

B. Matching. Check (✓) the caption that correctly describes each picture.



- Jose Gonzalez talks about who found the dinosaur fossils.
- Jose Gonzalez describes the dinosaur's size.



- Daniel Guajardo Ortega asks someone if he has found a fossil.
- Daniel Guajardo Ortega sells his fossil discovery to a scientist.



- ☐ This could be the most complete dinosaur skeleton found in Latin America.
- Scientists are not sure how to put the dinosaur together.



- ☐ Too many people are now visiting the city.
- Local people say the dinosaur discovery has changed their city.

After You Watch

Critical Thinking. Discuss these questions in a group.

- 1. How do you think the discovery has changed the city of Sabinas?
- 2. What do you think should happen to the dinosaur bones found in Sabinas?
- 3. What would you do if you found a fossil?