

Can animals count?

Salamanders

can pick which

is more up to

about 3.

Unless you don't like cookies, you'll pick the plate with three.

Being able to tell more from less is one of the most basic math talents. And it's one that a surprising number of animals have. A *robin*

(知更鸟) will pick the piece of wood with more mealworms.

A *salamander* (蝾螈) will pick the *container* (容器) with more fruit flies.

•• Animals will even pick more of something when it means they get less overall. Horses, for example, will go for three tiny apples over two much larger ones.

But animals do not have math class — why would they need to count?

Being able to *spot* (认出) the larger of two groups is useful to animals in lots of ways. It helps them pick the bush with more berries, or run to the larger group of friends. Many fish, for example, join groups (called shoals)

for protection. If a *predator* (捕食者) comes, a fish in a shoal of 40 is less likely to become lunch than a fish in a shoal of 10. So if a fish has a choice between two shoals, it's better to join the larger one.

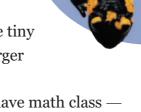
Many animals can also do a simple form of counting, keeping track of how

many of something there is.

②Even animals we don't usually think of as smart can tell the difference between one, two, and three. Fish and honeybees can be trained to get through a maze by choosing turns marked by a

certain number of dots — to find the way out, they have to count.

Some animals, including pigeons, parrots, crows, and rats, can count much higher than three. A pigeon can learn to peck (啄) a button exactly 24 times — no more, no less — to get a treat. It can even remember its place and continue counting if *interrupted* (被打断).



Vocabulary

I. Translate the following expressions from English to Chinese.

- 1. tell more from less
- 2. the larger of two groups
- 3. keep track of

4. get through a maze

- 5. find the way out
- 6. get a treat

II. Complete each sentence with the proper form of the given words.

choose	count	exactly	offer	pick	protection	surprising	talent
2. I took th3. Here are4. Regular5. There are6. There are7. We will8. As a new	ne cup of mile some pieces exercise may re lots of re thirty-one never know i	k she yo yo in store people in the if we are e, LED has b	me and or ou against e for visito e classroo in a	be I drank it all to _ the right sch the deadly viors to the gallom,t subject if we e first	nool. rus. ery. he teacher.	e.	
Choose th	ne best answ	ver.					
 What can we know about animals' ability to count? A. Animals can be taught to solve simple math problems. B. Animals prefer to choose more of something than less. C. Only smart animals can tell one number from another. D. A surprisingly small number of animals can count to three. 							
① It hel	ps them enjo	y more food	l. (anger. (② It helps the	s, according to part make more fri m get more treat D.34	ends.	
3. By mentioning the pigeon in the last paragraph, the author intended to show that A. pigeons can count up to <i>2-digit numbers</i> (两位数) B. pigeons would peck buttons for a treat C. pigeons can remember things very well D. pigeons are much smarter than we think							
A. expla B. introd C. show D. discu	duce readers readers anin ss the differe	als develop t to some animals' ability	mals that a	math talents are good at co and remember as between hu	_	ls	
Transla	tion						

Read the sentences below and translate them into Chinese.

- 1. Animals will even pick more of something when it means they get less overall.
- 2. Even animals we don't usually think of as smart can tell the difference between one, two, and three.