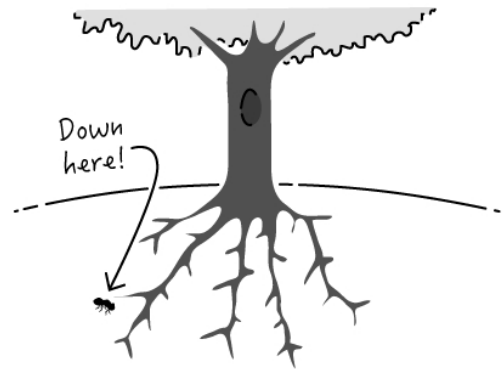
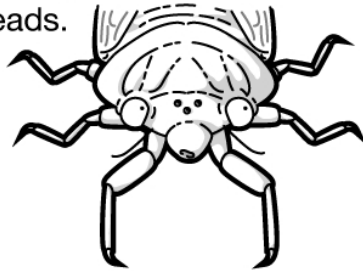


Name: _____



What is a cicada? It is a bug. You might have heard a buzzing sound in summer. That sound comes from a male cicada. He is trying to find a mate. The sound can be as loud as a lawn mower. That is a **big** buzz! Do you sound that loud when you call a friend? BUZZZZZZZZ!

What does a cicada look like? They come in different sizes. In North America, a small Aridland Cicada is about half an inch long. In Asia, an Empress Cicada can be three inches long. Some cicadas are the largest true bugs in the world. Cicadas have four wings that you can see through. They have two red, round eyes, one on each side of their heads. They also have three extra eyes on top of their heads. That is a lot of eyes! The kind in the eastern United States have orange tummies and black backs.



Where does a cicada live?

Cicadas live underground for a long time. They come out when the ground a bit below the surface reaches **64 degrees**. Billions of them will soon come out in the eastern part of the United States. That might sound scary. But they won't hurt you. They don't even bite. At least fourteen states will see cicadas all over. This group of cicadas is called **Brood X**. They come out every seventeen years.

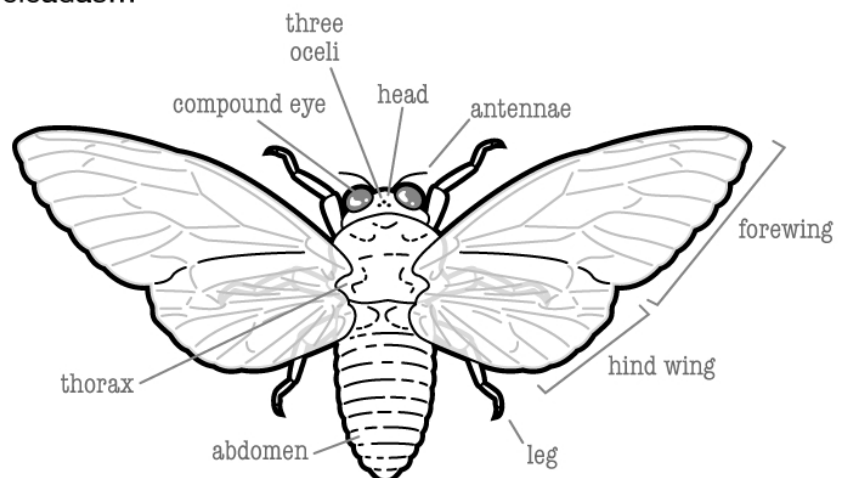


What can you do with a cicada besides listen to it?

Some people eat them. A man has even written a cookbook with bug recipes. Some people think they taste like peanut butter. Even so, would you want to eat a bug? Native Americans in the past have fried them. Crunchy cicadas... **YUCK** or yum?

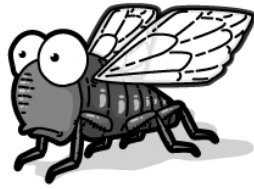


Whether you want to eat them, **RUN FROM THEM**, or just listen to them, get ready. The cicadas are coming!



Name: _____

The INCREDIBLE Cicada!



QUESTIONS:

1. True or false:
The cicada is a quiet bug.
A) True
B) False
2. Cicadas have red eyes.
A) True
B) False
3. Which group of cicadas
will come out soon?
A) Brood X
B) Brood Y
C) Brood Z
D) None of the above
4. How many states will
see cicadas soon?

5. How warm does the ground a bit below the
surface need to be for cicadas to come out?
A) 32 degrees
B) 50 degrees
C) 64 degrees
D) 100 degrees
6. What do some people think cicadas taste like?
A) peanut butter
B) jelly
C) hamburgers
D) pizza
7. True or false:
The cicada is a harmless bug.
A) True
B) False
8. Which group does a cicada belong to?
A) bugs
B) mammals
C) birds
D) reptiles



STORY STARTERS

Would you eat a bug? Write a couple of sentences about why or why not.

How do you feel about so many bugs coming soon? Write a couple of sentences.

Name: _____

How many total legs on 10 cicadas?

Emma collected 3 cicadas. Hannah also collected cicadas. Altogether they collected 13 cicadas. How many cicadas did Hannah collect?

Jenna thinks there will also be 17-year cicadas in 2041. Is she right?

Along with the 17-year cicadas, we also have 13-year cicadas. What property do 13 and 17 both have? Hint: They are both not composite numbers.

Hunter thinks there will also be 17-year cicadas in 2055. Is he right?

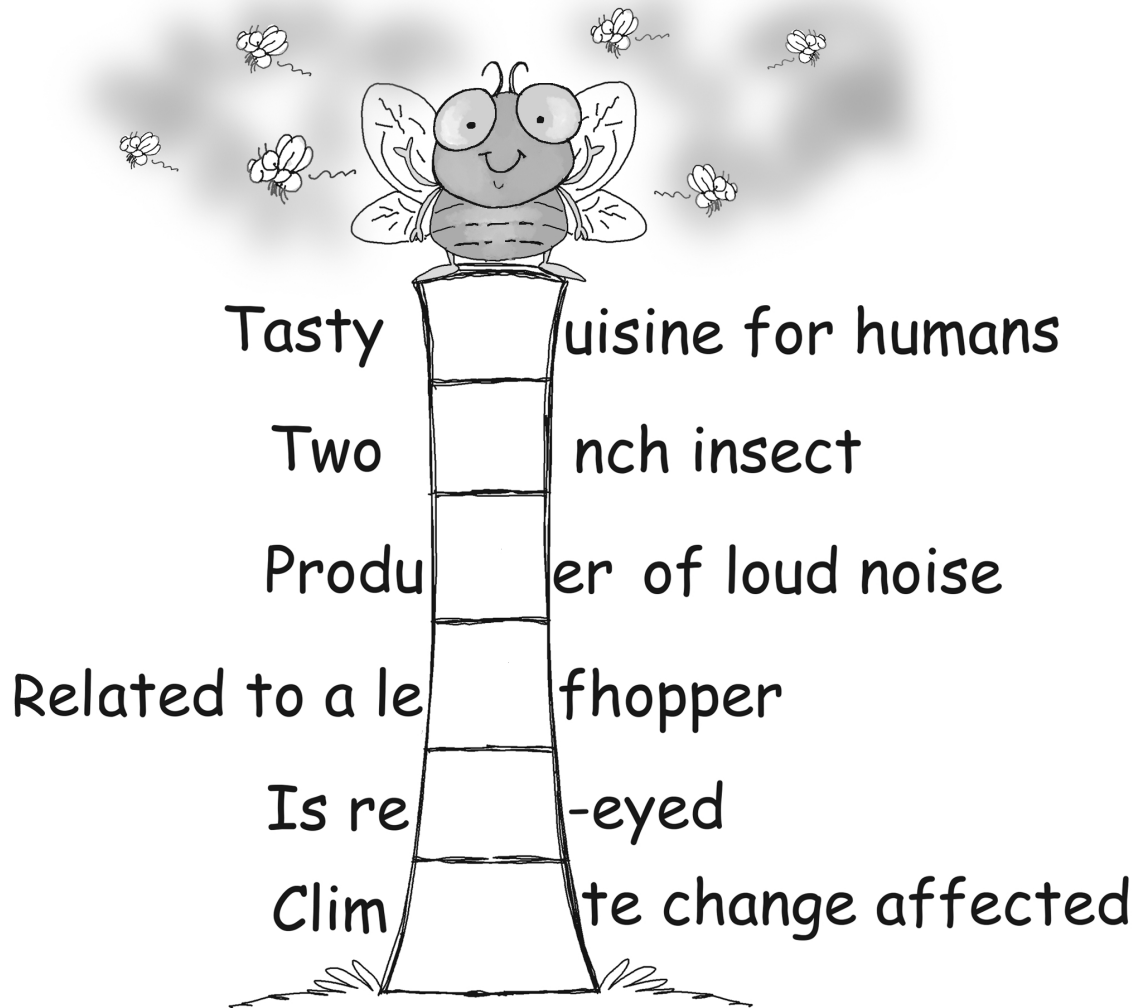
How many total legs on 7 cicadas?

The 17-year cicadas awoke in 2021. They will awake again in 17 years. When will that be?

Holly thinks there will also be 17-year cicadas in 2055. Is she right?

Name: _____

Write the word "cicada" in the boxes, from top to bottom, to finish some fun fact statements about them.



Research one fact and write a few sentences about it. _____

Name: _____

Finding Words Multiple Times

Look for words to the RIGHT, to the LEFT, UP, or DOWN.

S	S	P	L	A	B	M	Y	T	H	C	T	A	H	I
D	I	W	I	N	G	S	B	R	O	O	D		X	M
Y	N	G	S	L	S	R	O	T	A	D	E	R	P	A
I	G	D	G	Y	O	F	F	S	P	R	I	N	G	G
N	S	M	E	L	Y	X	G	S	H	C	T	A	H	O
G	R	X	Y	L	E	M	N	R	A	D	U	L	T	E
S	O	X	Y	L	E	M	I	O	H	C	T	A	H	S
L	T	T	M	H	T	L	R	T	T	X	X	M	T	H
E	A	G	W	S	Y	A	P	A	Y	Y	Y	E	L	A
N	D	N	I	G	M	B	S	D	M	L	L	L	U	T
N	E	I	N	N	B	M	F	E	B	E	E	Y	D	C
U	R	Y	G	I	A	Y	F	R	A	M	M	X	A	H
T	P	D	S	S	L	T	O	P	L	H	A	T	C	H

Answers for blanks: **4 1 2 1 1 2 2 6 3 5**

I found HATCH ____ time(s). ☐ ☐ ☐ ☐ ☐ ☐

I found IMAGINES ____ time(s). ☐ ☐ ☐ ☐ ☐ ☐

I found ADULT ____ time(s). ☐ ☐ ☐ ☐ ☐ ☐

I found PREDATORS ____ time(s). ☐ ☐ ☐ ☐ ☐ ☐

I found OFFSPRING ____ time(s). ☐ ☐ ☐ ☐ ☐ ☐

I found XYLEM ____ time(s). ☐ ☐ ☐ ☐ ☐ ☐

I found BROOD X ____ time(s). ☐ ☐ ☐ ☐ ☐ ☐

I found TYMBAL ____ time(s). ☐ ☐ ☐ ☐ ☐ ☐

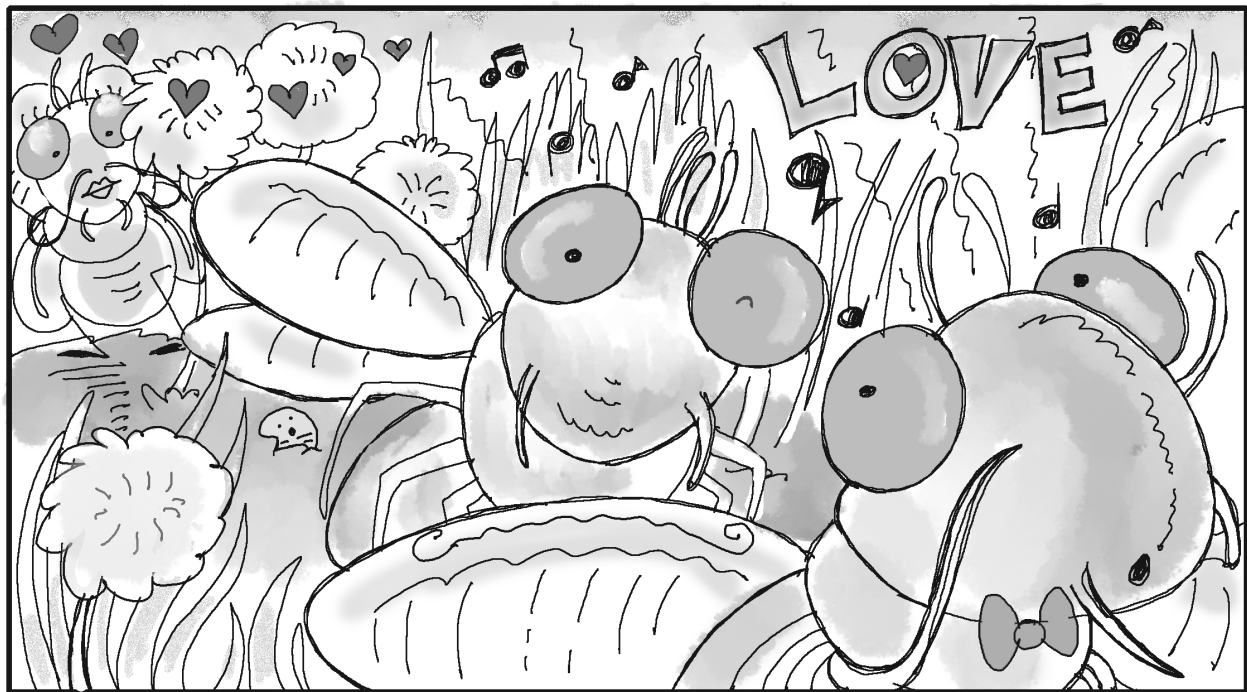
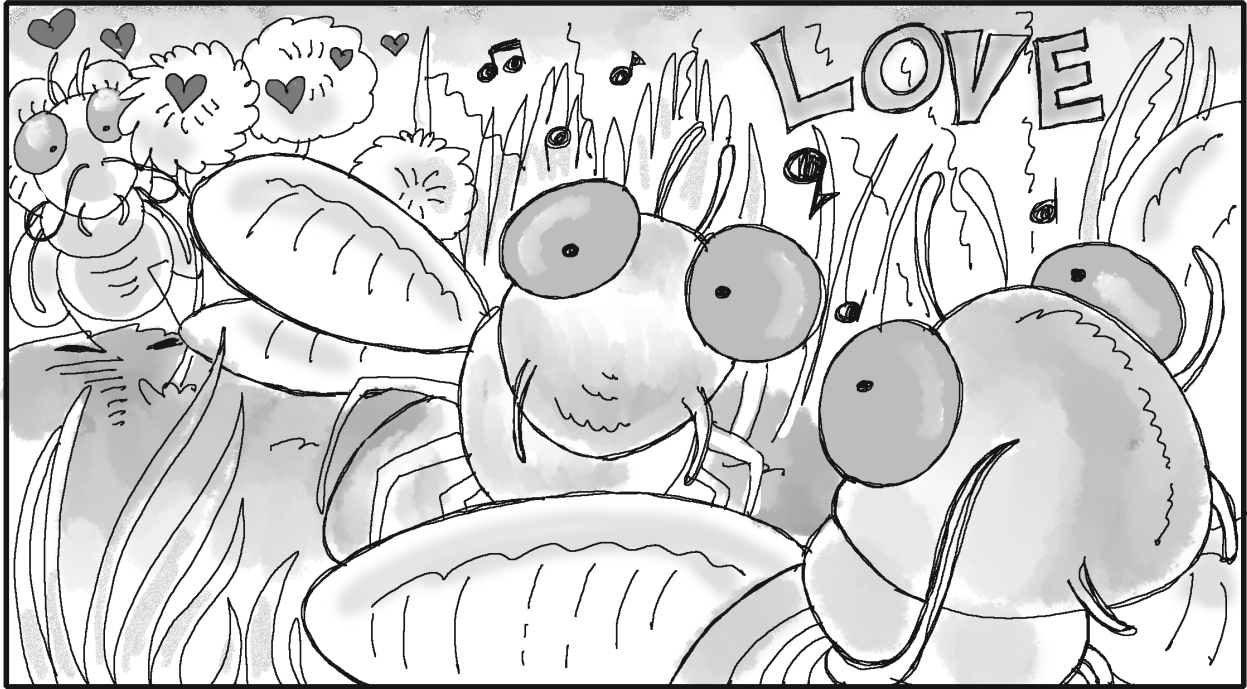
I found TUNNELS ____ time(s). ☐ ☐ ☐ ☐ ☐ ☐

I found SING ____ time(s). ☐ ☐ ☐ ☐ ☐ ☐

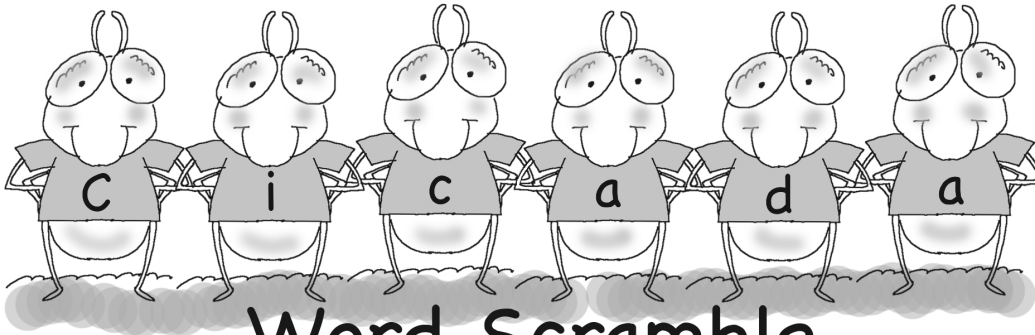


Name: _____

Male cicadas make a very loud noise. One of the reasons is to attract females. Compare the top picture to the bottom one. Circle ten differences in the bottom one when you examine these two.



Name: _____



Word Scramble

Below are facts about cicadas. Unscramble the underlined letters in each sentence and write it at the end.

Cicadas ...

regularly shed their skin in a erocpss
known as "molting." _ _ _ _ _

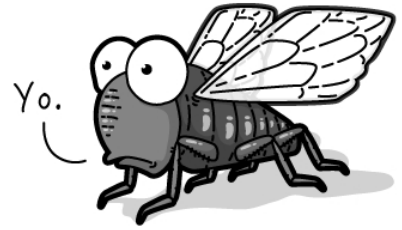
In Australia they can be heard regularly
in nSyyed. _ _ _ _ _

Japan and China use them in niciedme.
_ _ _ _ _

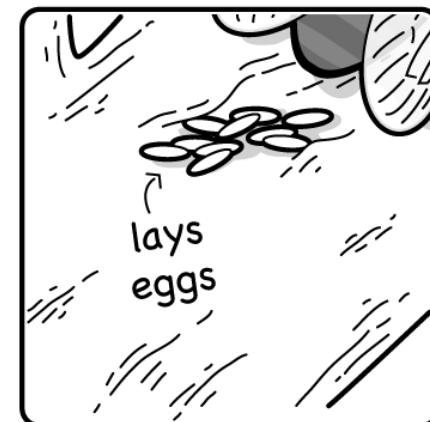
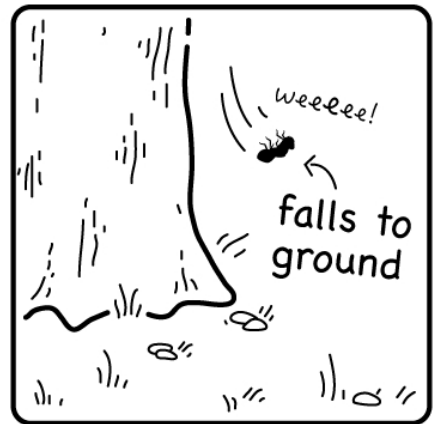
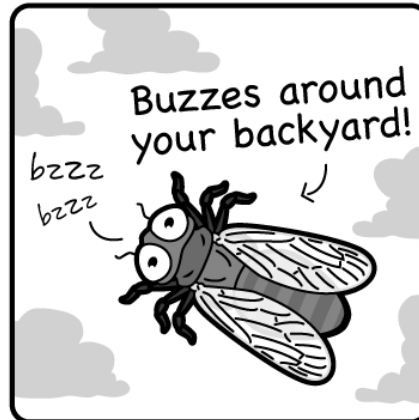
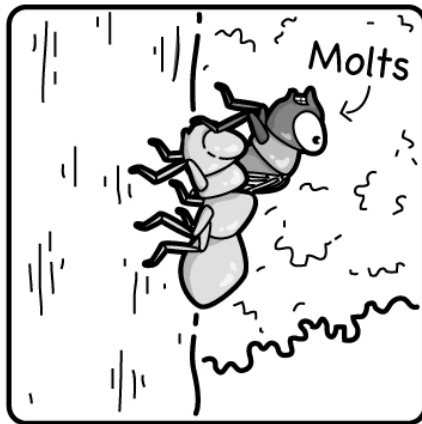
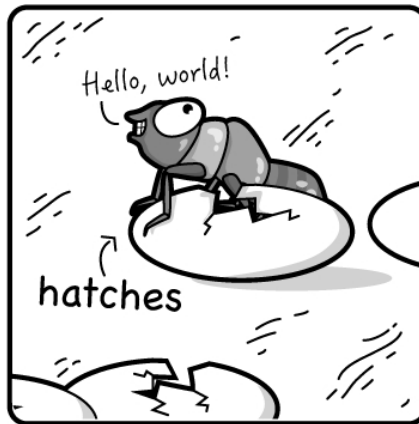
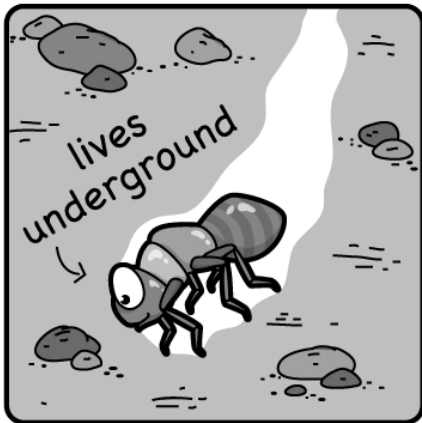
Underground, the nymph cicadas feed
on otor juice. _ _ _ _

Name: _____

The INCREDIBLE Cicada!



Put the Cicada Life Cycle in Order



Name: _____

The INCREDIBLE Cicada!

1

2

7



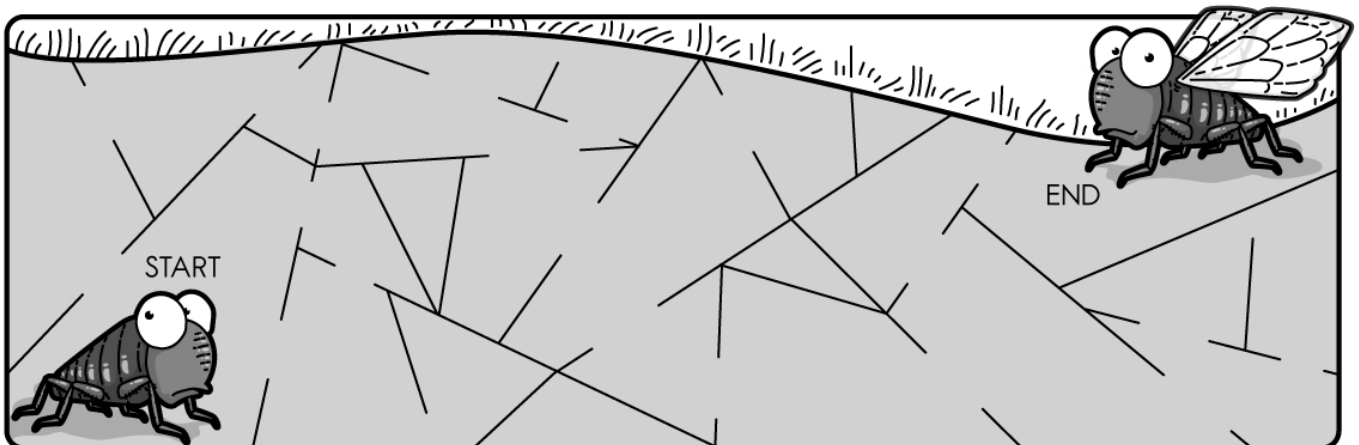
Cut and paste the squares
from the previous page.

3

6

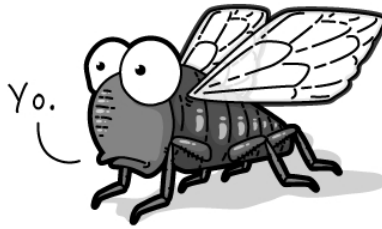
5

4



Name: _____

The INCREDIBLE Cicada!



? ? **FACT** or **Myth** ? ? ? ? ?

FACT Cicadas are a kind of locust.
Myth Cicadas are their own species.

FACT Cicadas can harm you and your pets.
Myth Cicadas don't bite and are a good source of protein.

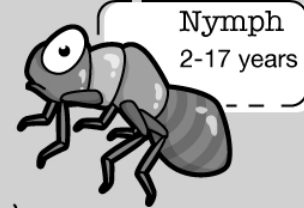
FACT Only male cicadas "sing" and they do their singing during the daytime.
Myth All cicadas "sing" at night.

FACT Cicadas are dormant underground. They hibernate.
Myth Cicadas are active underground. They tunnel and feed off roots.

FACT Large numbers of cicadas can destroy crops and vegetation.
Myth Cicadas only feed on tree sap.

FACT Cicadas only live for a few weeks above ground.
Myth Cicadas only live for a few hours above ground.

Put the
Cicada Life Cycle
in Order



Nymph
2-17 years

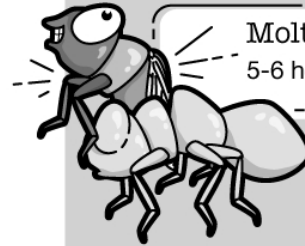


Adult
3-6 weeks



Eggs
6-10 weeks

1



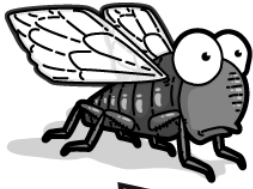
Molt
5-6 hours

Did you know that you
can **EAT** cicadas?!

Draw a tasty treat around
the cicada below.





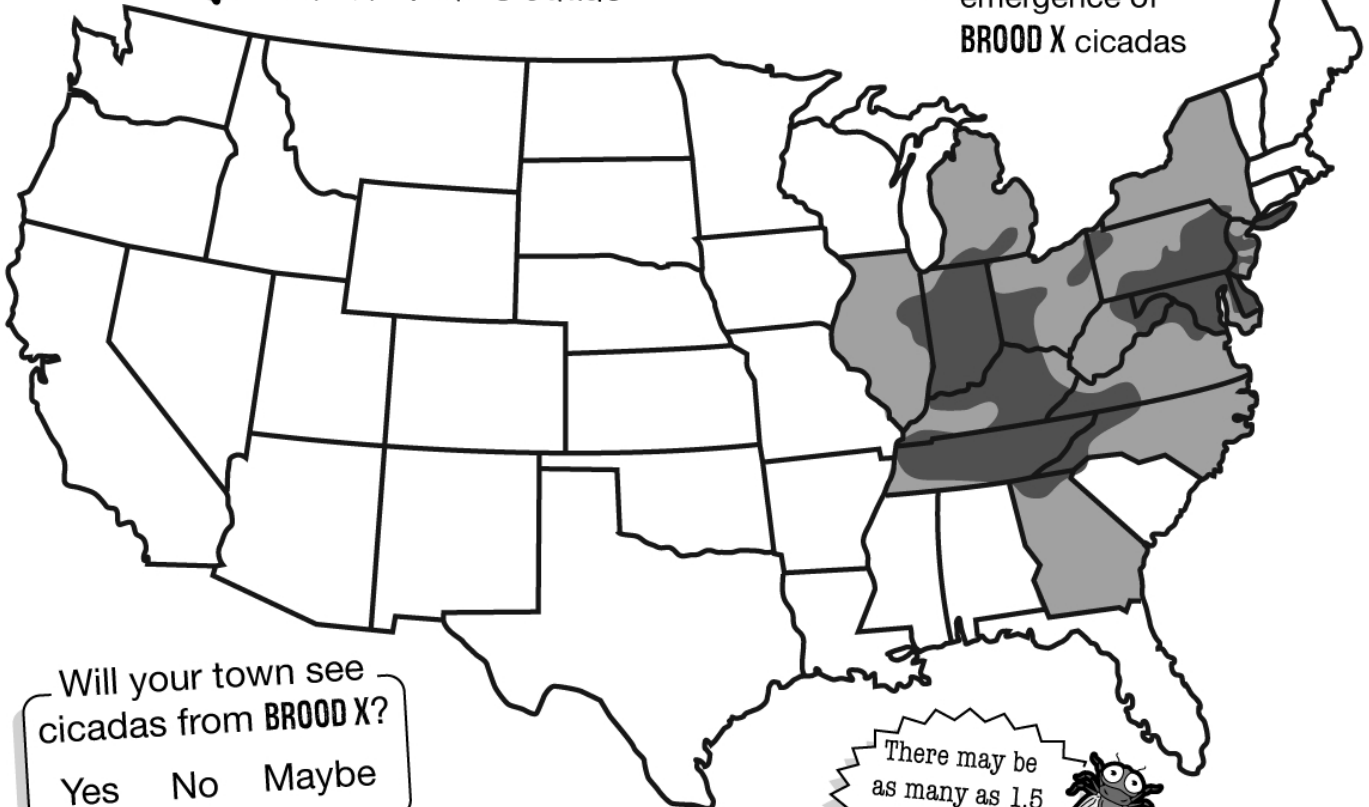
Name: _____



BROOD X

The 17-Year Cicadas

-  states that will see **BROOD X** cicadas
-  areas with heaviest emergence of **BROOD X** cicadas



Will your town see cicadas from **BROOD X**?

Yes No Maybe

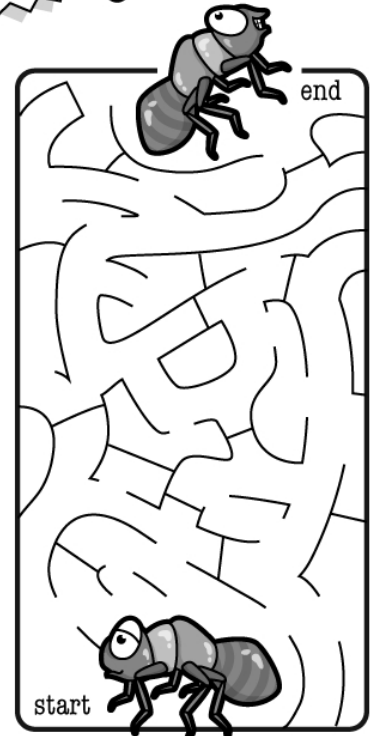
There may be as many as 1.5 million cicadas per acre!



Test your map knowledge!

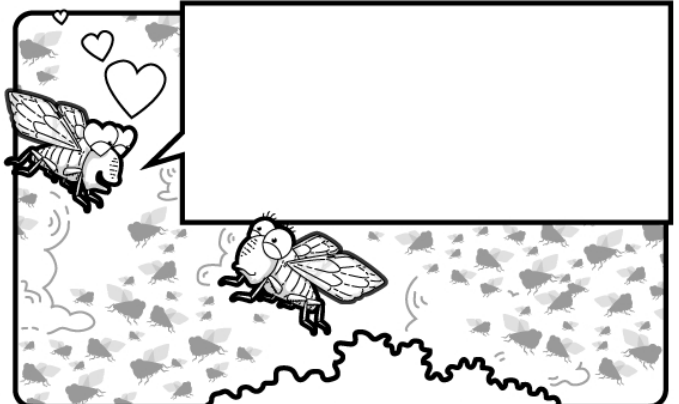
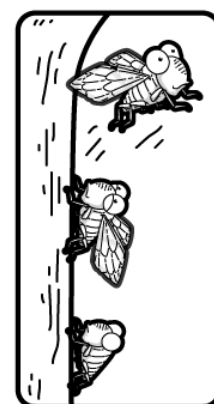
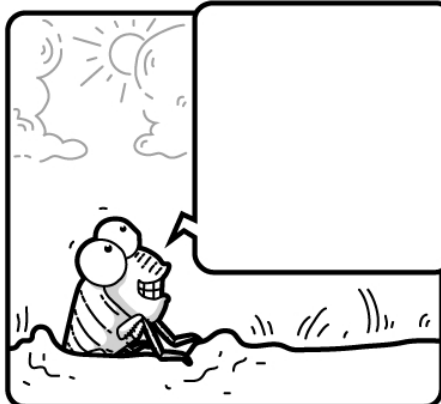
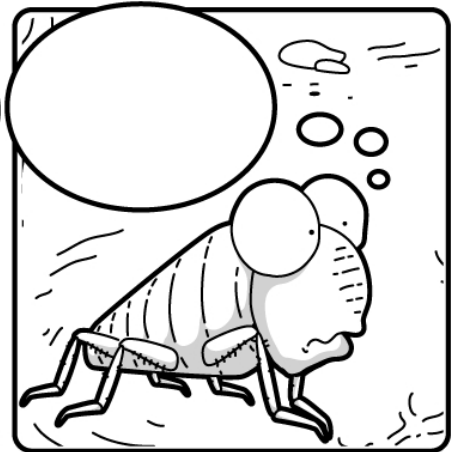
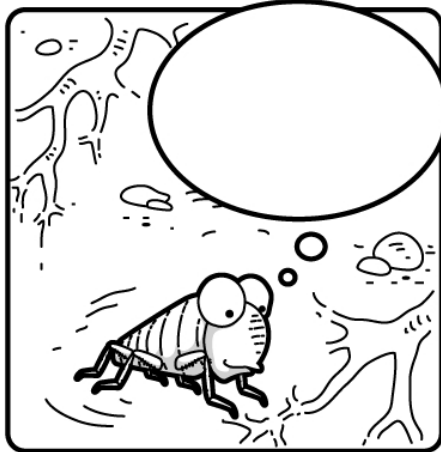
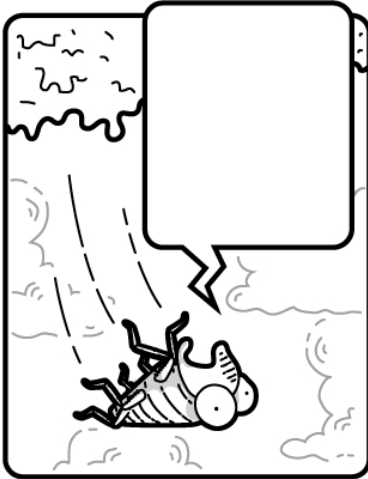
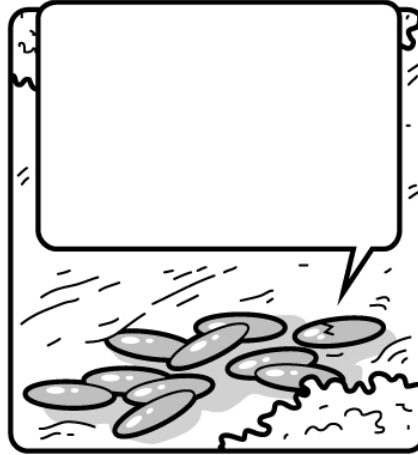
Circle the 15 states that will see **BROOD X** cicadas:

- | | | | |
|-------------|---------------|----------------|----------------|
| Alabama | Indiana | Nebraska | South Carolina |
| Alaska | Iowa | Nevada | South Dakota |
| Arizona | Kansas | New Hampshire | Tennessee |
| Arkansas | Kentucky | New Jersey | Texas |
| California | Louisiana | New Mexico | Utah |
| Colorado | Maine | New York | Vermont |
| Connecticut | Maryland | North Carolina | Virginia |
| Delaware | Massachusetts | North Dakota | Washington |
| Florida | Michigan | Ohio | West Virginia |
| Georgia | Minnesota | Oklahoma | Wisconsin |
| Hawaii | Mississippi | Oregon | Wyoming |
| Idaho | Missouri | Pennsylvania | |
| Illinois | Montana | Rhode Island | |



Name: _____

The INCREDIBLE Cicada!



Name: _____

Use the code to finish the cicada facts below.

 $\Delta = A$ $\rightarrow = G$

paw = N

butterfly = C

 $\downarrow = H$

diamond = O

star = D

 $\uparrow = I$

flower = P

teardrop = S

umbrella = U

crescent moon = E

 $\leftarrow = L$

leaf = R

? = T

spade = W

1. Cicadas are .

\uparrow paw teardrop crescent moon butterfly ? teardrop

2. Cicadas are not or flies.

\rightarrow leaf Δ teardrop teardrop \downarrow diamond flower flower crescent moon teardrop teardrop

3. Cicadas have two pairs of clear .

spade \uparrow paw \rightarrow teardrop

4. Cicadas have a pair of antennae.

teardrop \downarrow diamond leaf ?

5. Cicadas have big eyes that are set apart.

spade \uparrow star crescent moon

6. Cicadas make the sounds of any insect.

\leftarrow diamond umbrella star crescent moon teardrop ?