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### Problem

On the island of knights and knaves, you are approached by two people. The first one says to you, "we are both knaves."

What are they actually?

### Hint

Is the first person a knight?

### Solution

When you know if these two fellows are knights or knaves, or one of each, check the solution [here](#).

*\*See all of our riddles [here](#).*

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**Riddle of the Week #55**



**The Hardest Logic Puzzle Ever**

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# Riddle of the Week #43: Knights and Knaves, Part 1

Difficulty level: Easy

// BY JAY BENNETT DEC 7, 2017



Ready for a riddle series? In the coming weeks, *Popular Mechanics* will present progressively harder "knights and knaves" puzzles. These logic puzzles take place on an island with two types of people: the knights, who always tell the truth, and the knaves, who always lie.

American mathematician and musician Raymond Smullyan named this type of puzzle in his 1978 book *What Is the Name of This Book?* You might remember a knights and knaves puzzle from the 1986 fantasy film, *Labyrinth*.

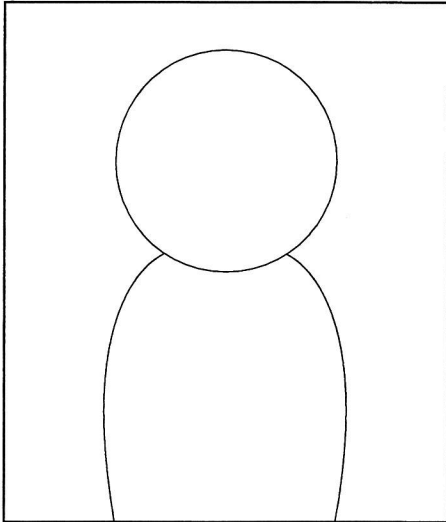
To start the series off, let's have a simple conversation with these knaves and these knights.

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**MORE FROM POPULAR MECHANICS**

Cast your bait 300 yards with this canon

# ALL ABOUT



Grade/Teacher

Big Goal:

Strengths:

- 
- 
- 
- 

Growth Opportunities:

- 
- 
- 
- 

What Works for Me:

- 
- 
- 
- 

What Doesn't Work for Me:

- 
- 
- 
- 

Anything Else? \_\_\_\_\_





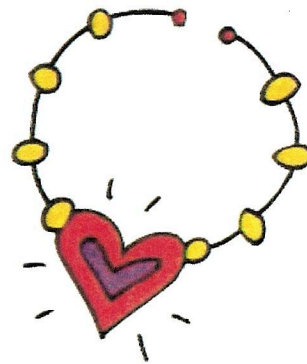
# Favorite Jewelry

Each of the five girls have a favorite piece of jewelry. Use the clues below to find out the favorite jewelry for each girl.

|       | Diamond | Gold | Silver | Ruby | Opal |
|-------|---------|------|--------|------|------|
| Rose  |         |      |        |      |      |
| Jenny |         |      |        |      |      |
| Sarah |         |      |        |      |      |
| Tina  |         |      |        |      |      |
| Vicky |         |      |        |      |      |



1. Rose has jewelry that starts with the same letter as her first name.
2. Sarah does not like gold or opals.
3. Tina's grandmother gave her diamond earrings for her birthday.
4. Jenny's jewelry is either gold or silver.



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# Vacation

Four families (the Smiths, Johnson, Clark, and Adams) went on vacation. The families went to either Florida, Arizona, California, or Canada. The vacations lasted either 2,4,6 or 8 days. Use the clues below to figure out where and how long each family vacationed.

|         | Florida | Arizona | California | Canada | 2 days | 4 days | 6 days | 8 days |
|---------|---------|---------|------------|--------|--------|--------|--------|--------|
| Smith   |         |         |            |        |        |        |        |        |
| Johnson |         |         |            |        |        |        |        |        |
| Clark   |         |         |            |        |        |        |        |        |
| Adams   |         |         |            |        |        |        |        |        |
| 2 days  |         |         |            |        |        |        |        |        |
| 4 days  |         |         |            |        |        |        |        |        |
| 6 days  |         |         |            |        |        |        |        |        |
| 8 days  |         |         |            |        |        |        |        |        |

## CLUES:

1. The Smith's were on vacation 2 days longer than the family that visited Florida.
2. The family that was gone for 4 days visited California.
3. The Clark family visited a destination that starts with "C".
4. The Johnson family went to Florida for more than 3 days.
5. The Adams family went to California to visit their grandparents.



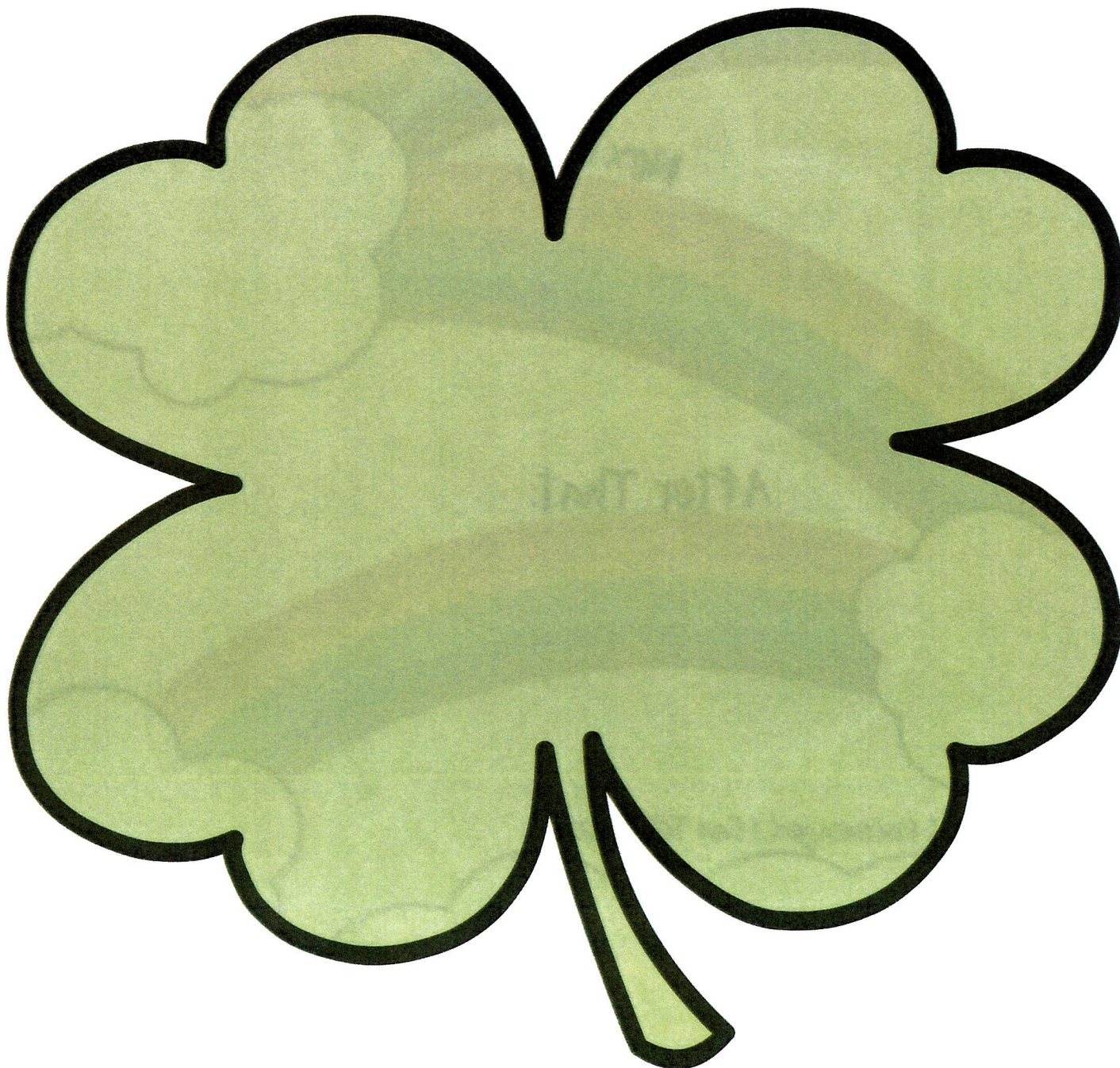




Name: \_\_\_\_\_

# Making My Own Luck

Write your goal in the shamrock below.





Name: \_\_\_\_\_

What three steps can I take to reach this goal?



First I Will:



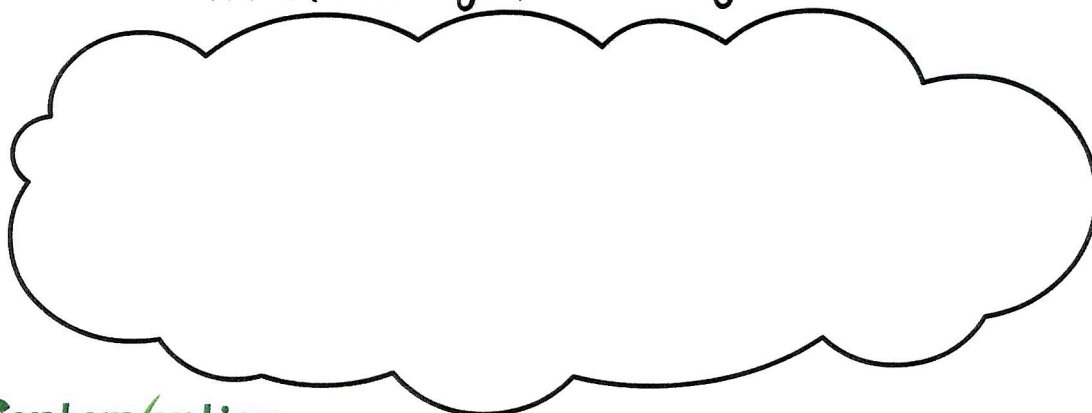
Next:



After That:



If I Get Discouraged, I Can Tell Myself:





Name: \_\_\_\_\_

What three steps can I take to reach this goal?

Making My  
Own Luck 

First I Will:

Next:

After That:

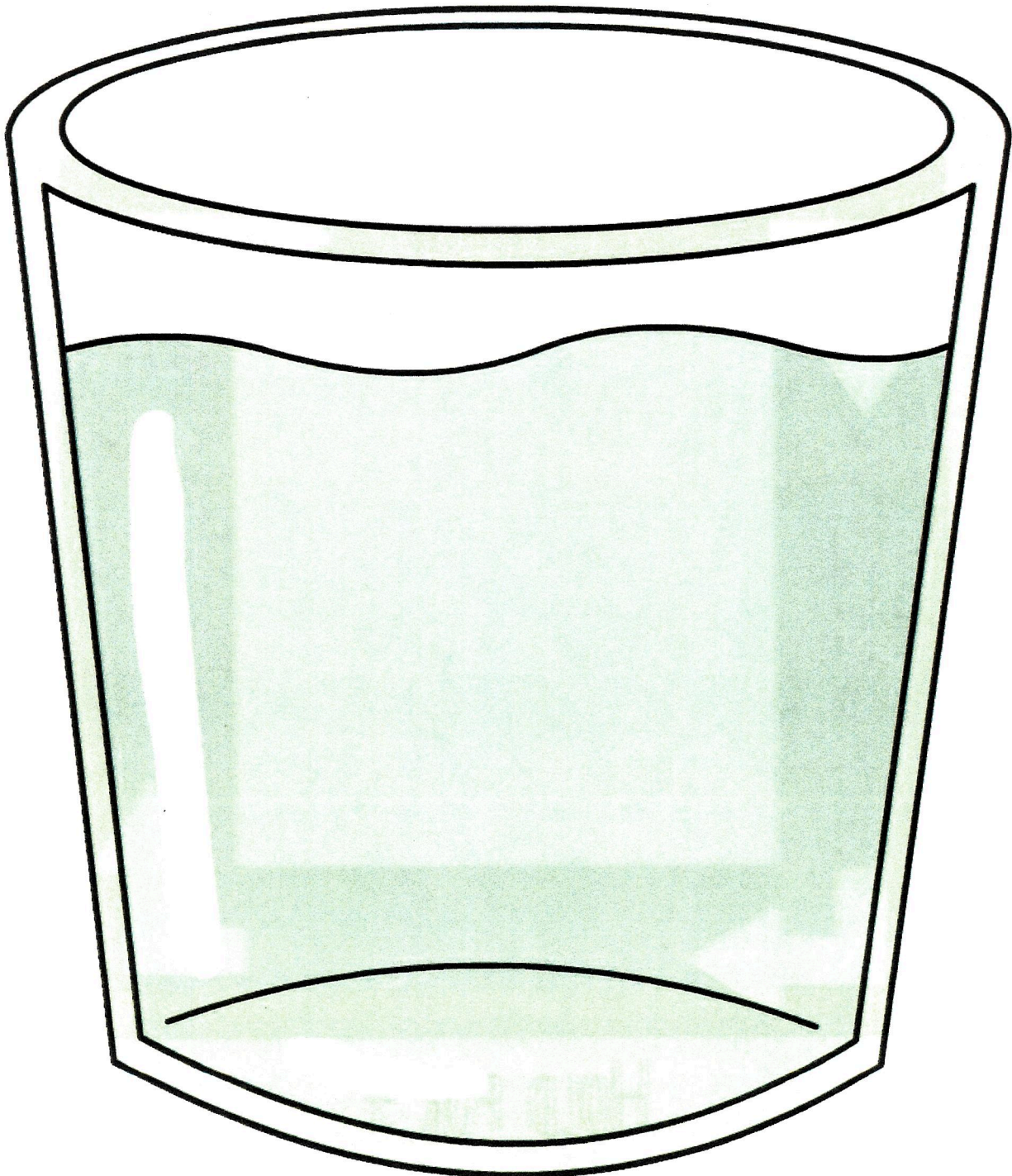
If I Get Discouraged, I Can Tell Myself:



Name: \_\_\_\_\_

# FILL UP YOUR WORRY CUP

Write down the things that you worry about.



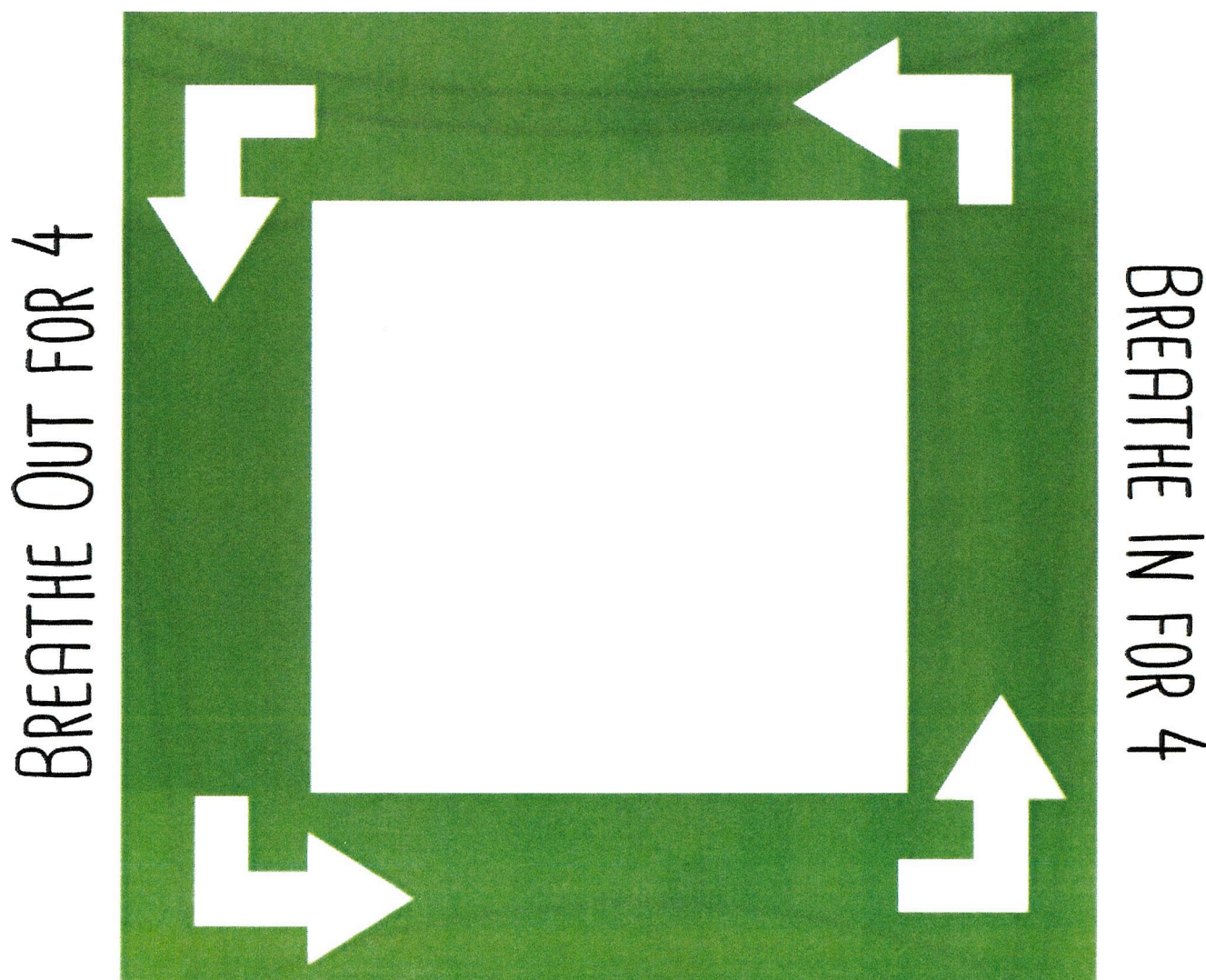


Name: \_\_\_\_\_

# SQUARE BREATHING

Start at the bottom right of the square, and follow the arrows around the whole square to complete one deep breath.

HOLD FOR 4



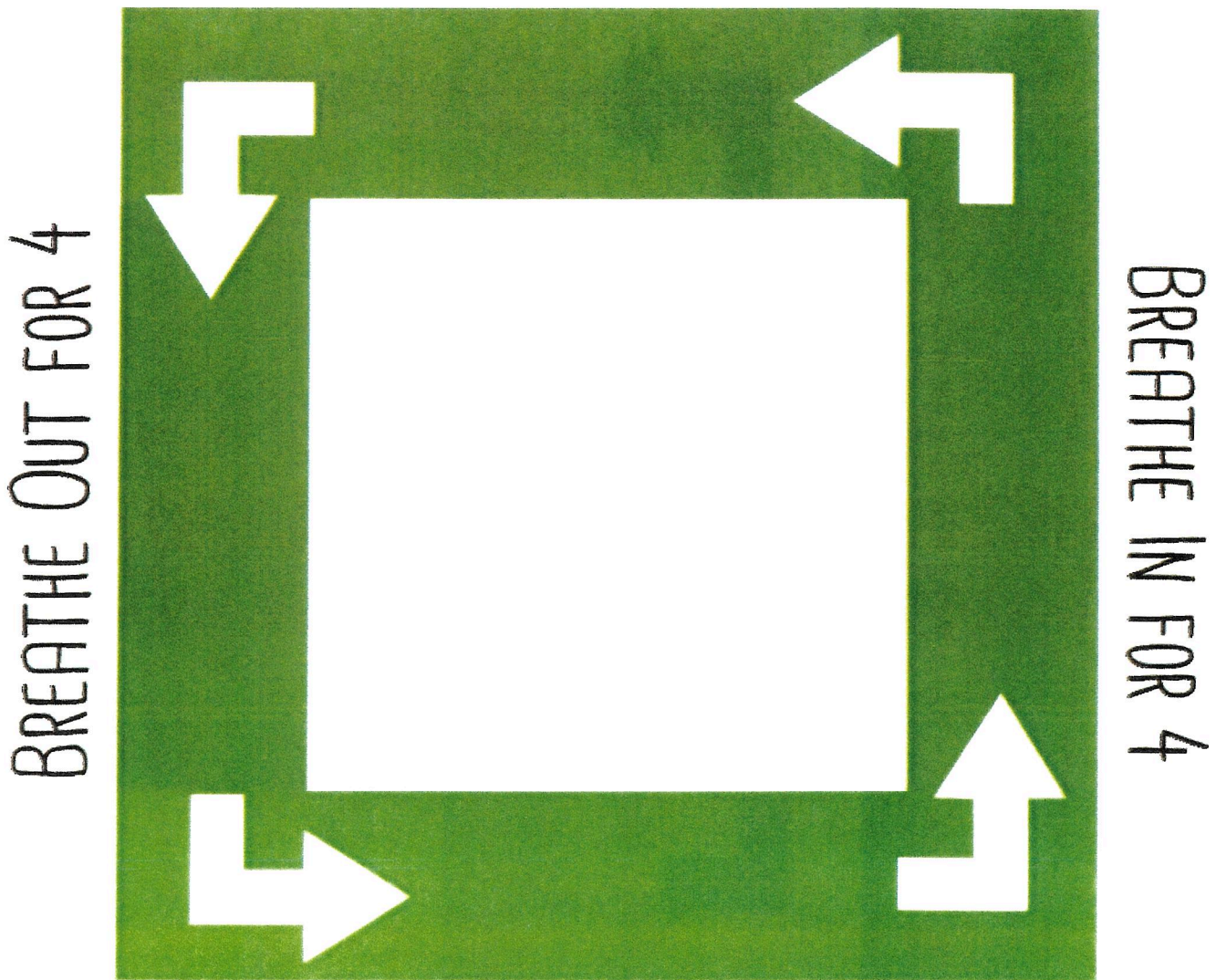
HOLD FOR 4

Name: \_\_\_\_\_

# SQUARE BREATHING

Start at the bottom right of the square, and follow the arrows around the whole square to complete one deep breath.

HOLD FOR 4



HOLD FOR 4







# HELP COOPER DECODE A JOKE

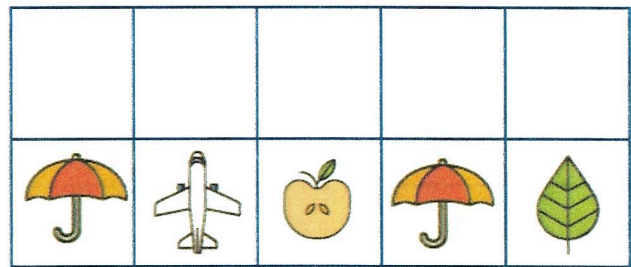
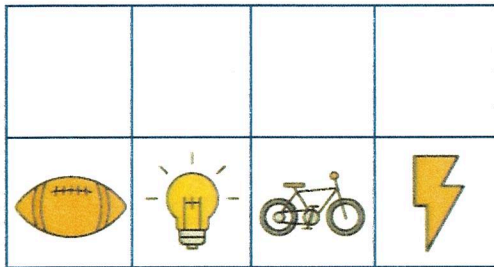
Work together with your teacher to help Cooper decode the jokes below.

Fill in the blanks with the letter that matches the picture on the answer key. Be sure to work together and ask for help to fill in the right letters!

## Joke #1

How does a lion move a boat?

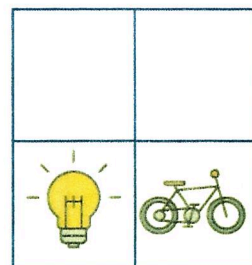
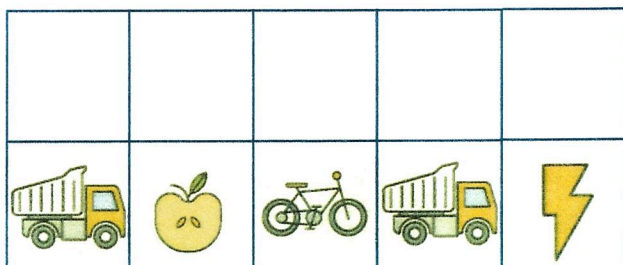
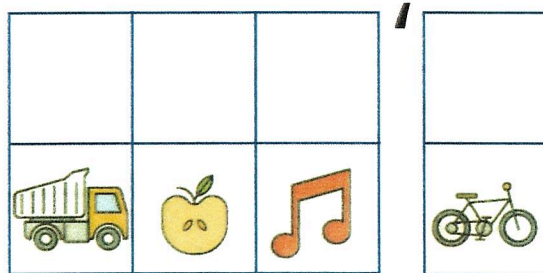
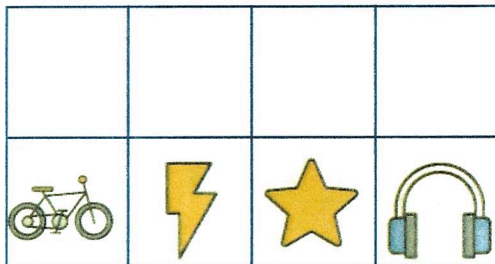
## Answer #1



## Joke #2














Why don't lions like fast food?














## Answer #2

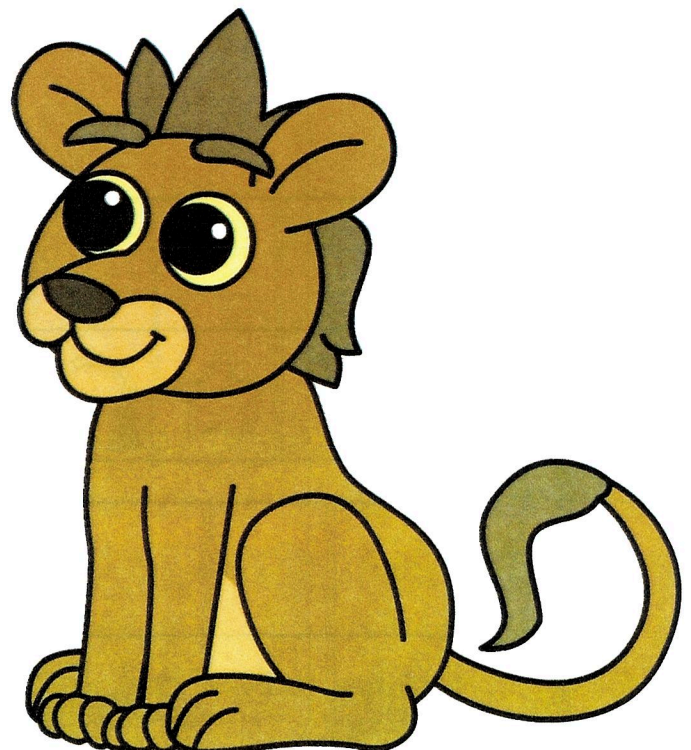


# HELP COOPER DECODE A JOKE

Key:

|   |   |
|---|---|
| A |    |
| B |    |
| C |    |
| D |    |
| E |    |
| F |  |
| G |  |
| H |  |
| I |  |
| J |  |
| K |  |
| L |  |
| M |  |














|   |   |
|---|---|
| N |    |
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| W |  |
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| Y |  |
| Z |  |


















# HELP COOPER DECODE A JOKE

Key:

|   |   |
|---|---|
| A |    |
| B |    |
| C |    |
| D |    |
| E |    |
| F |  |
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