

MATH IN

MOTION

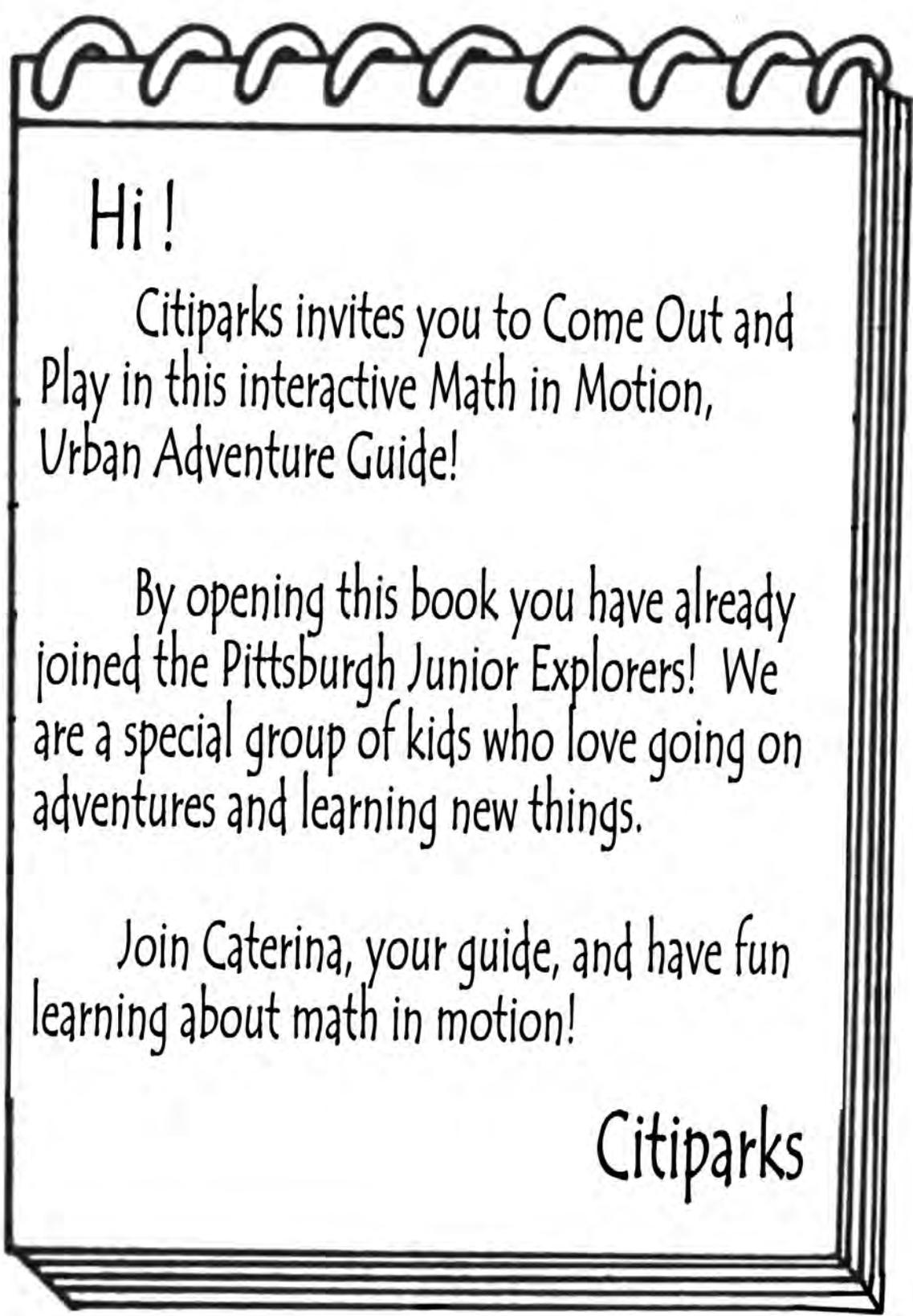
URBAN ADVENTURE GUIDE

This book belongs to:

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Pittsburgh Junior Explorer





Hi!

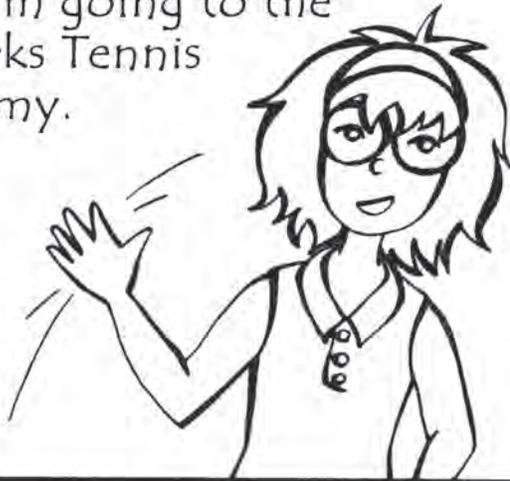
Citiparks invites you to Come Out and Play in this interactive Math in Motion, Urban Adventure Guide!

By opening this book you have already joined the Pittsburgh Junior Explorers! We are a special group of kids who love going on adventures and learning new things.

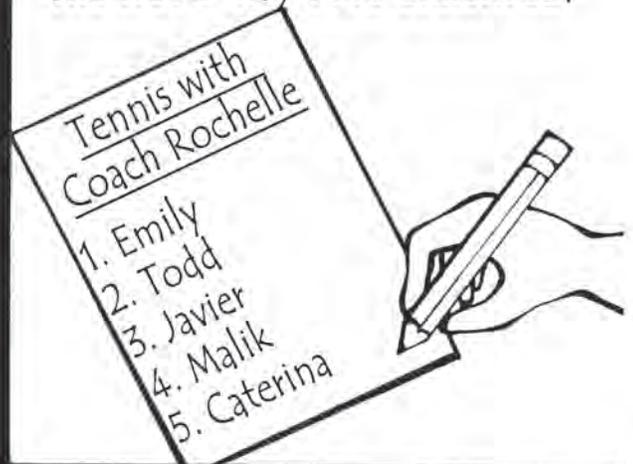
Join Caterina, your guide, and have fun learning about math in motion!

Citiparks

Hello, my name is Caterina and I am going to the Citiparks Tennis Academy.

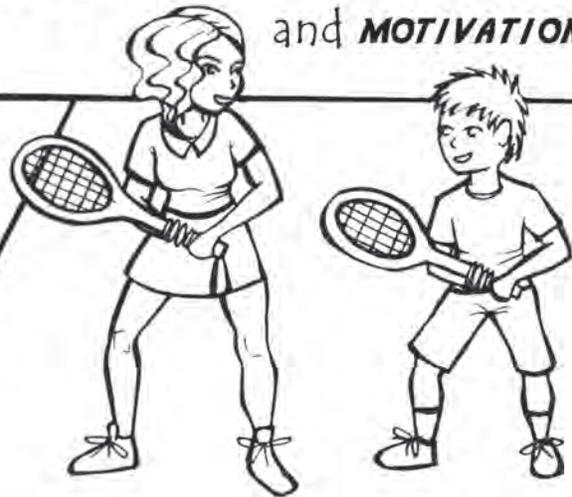


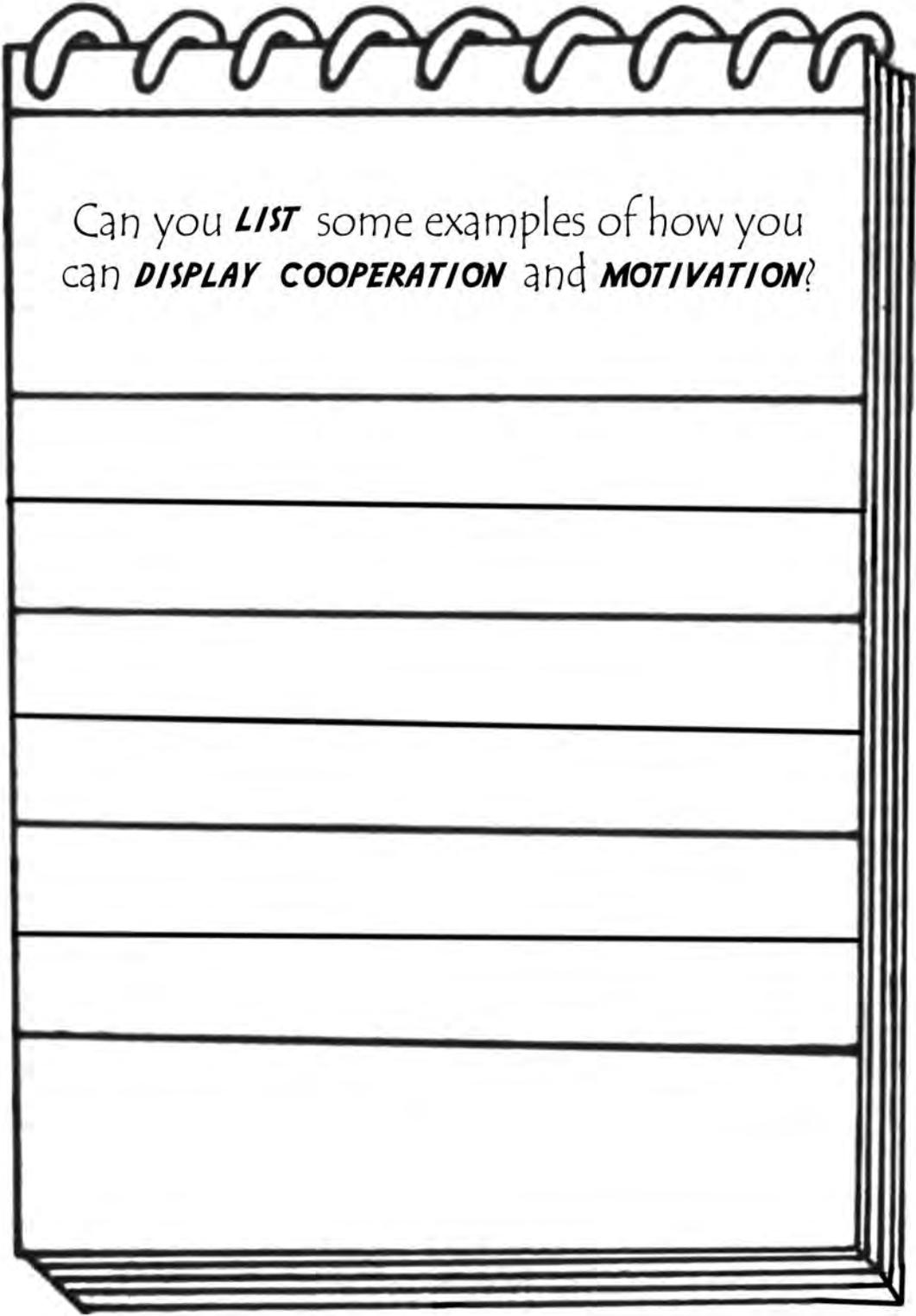
I am taking some classes to **IMPROVE** my **PERFORMANCE**.



That is my tennis coach, Coach Rochelle. She says...

"The best way to **IMPROVE** your **PERFORMANCE** is with **COOPERATION** and **MOTIVATION**."



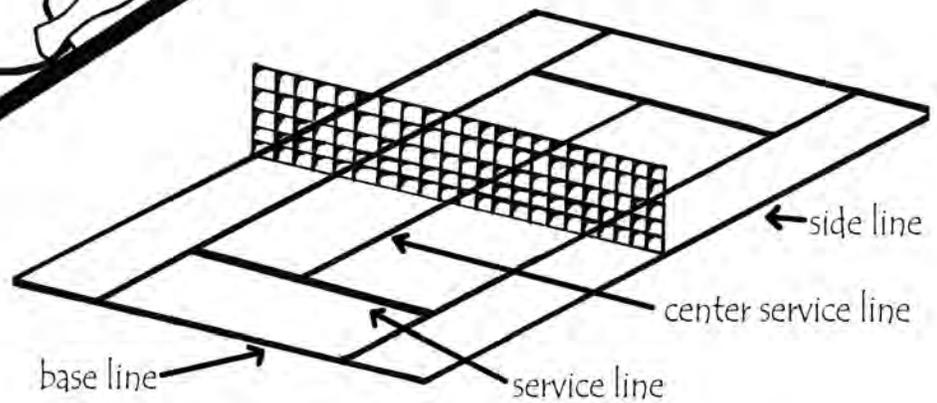


Can you **LIST** some examples of how you can **DISPLAY COOPERATION** and **MOTIVATION**?

It is good to be familiar with common tennis terms to **IMPROVE** your vocabulary.



ILLUSTRATION - 1



Take a look at these illustrations, they **DISPLAY** the parts of a tennis racquet and the parts of a tennis court.

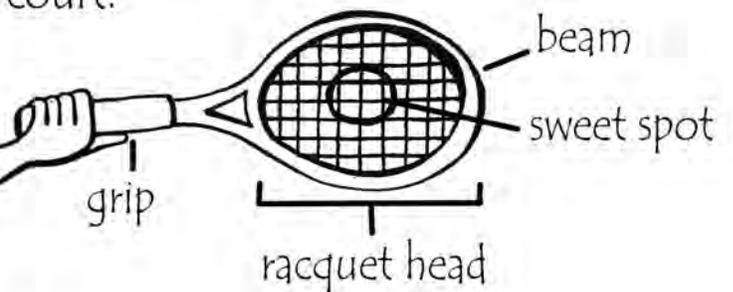


ILLUSTRATION - 2

# Vocabulary Word Search

Directions: Circle the words in the puzzle.  
The words go across and down

M M L E H R Q M N S  
L M O T I V A T E U  
I F I M P R O V E X  
R D I S P L A Y A A  
E O P O V R L P L C  
T M P O Q W R C E R  
U A C T I V E J R E  
R Z K L R R C Q T A  
N X P E R F O R M T  
M C O O P E R A T E  
N V F L I S T M L B

cooperate

motivate

return

active

display

improve

alert

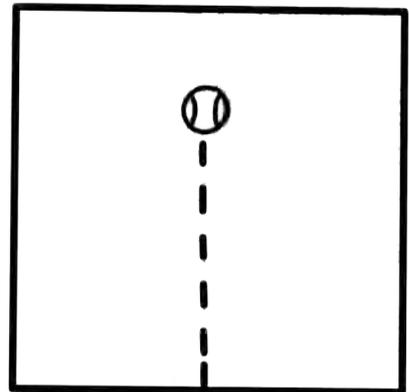
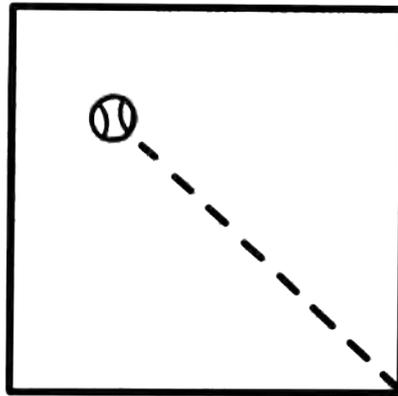
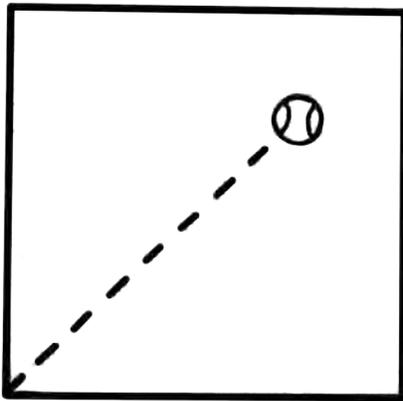
perform

create

list

Match the direction of each ball with the line on the protractor that is most similar.

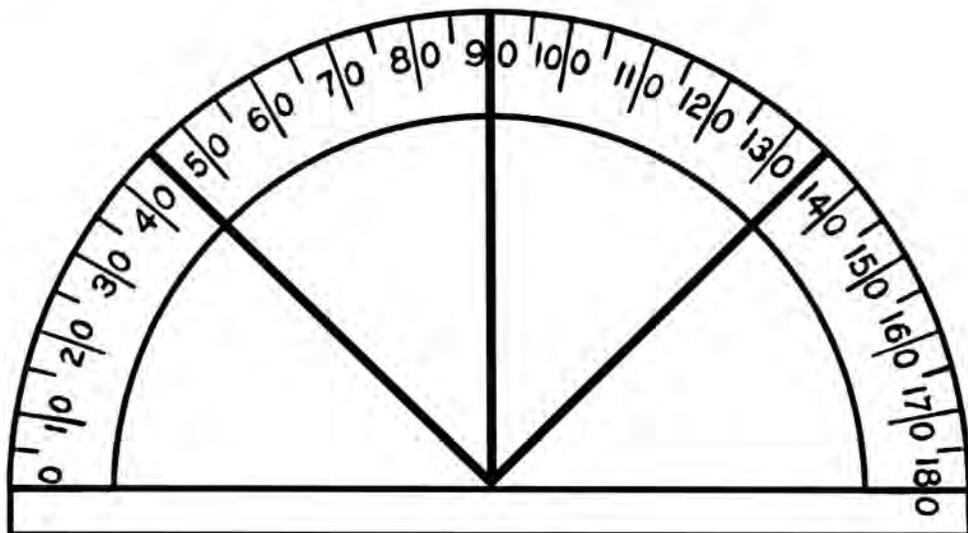
**LIST** your answers below.

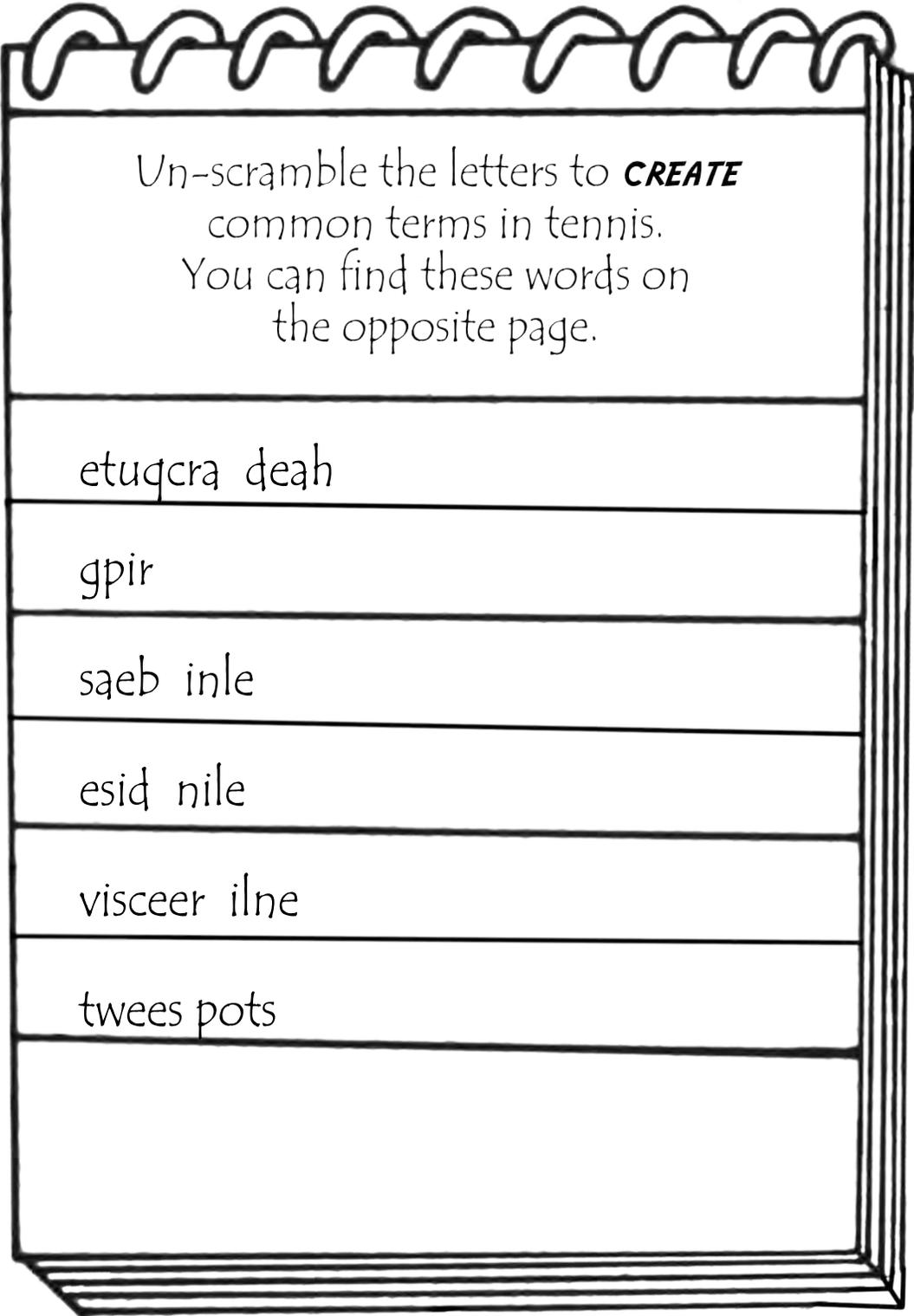


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Un-scramble the letters to **CREATE**  
common terms in tennis.  
You can find these words on  
the opposite page.

etugcra deah

gpir

saeb inle

esid nile

visceer ilne

twees pots

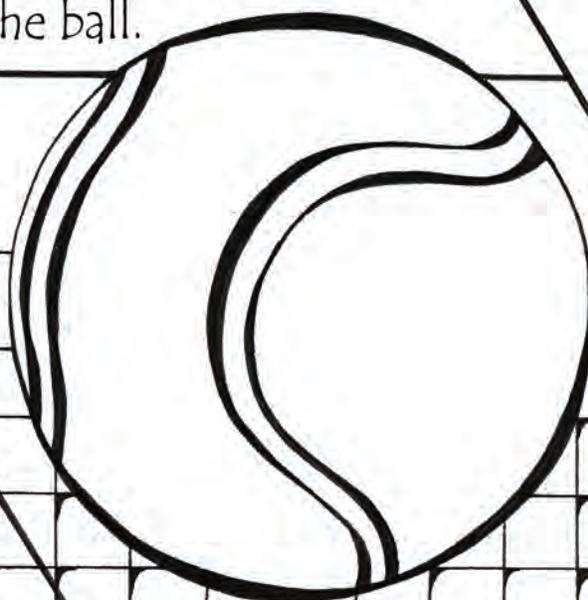
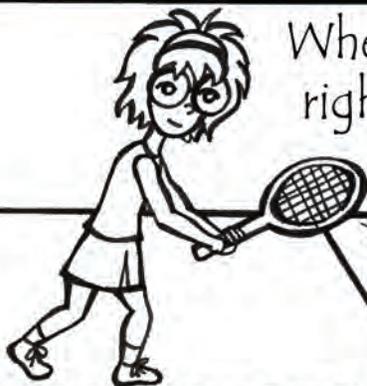
Coach Rochelle told me that another way to **IMPROVE** my **PERFORMANCE** is by being **ACTIVE** and **ALERT**.

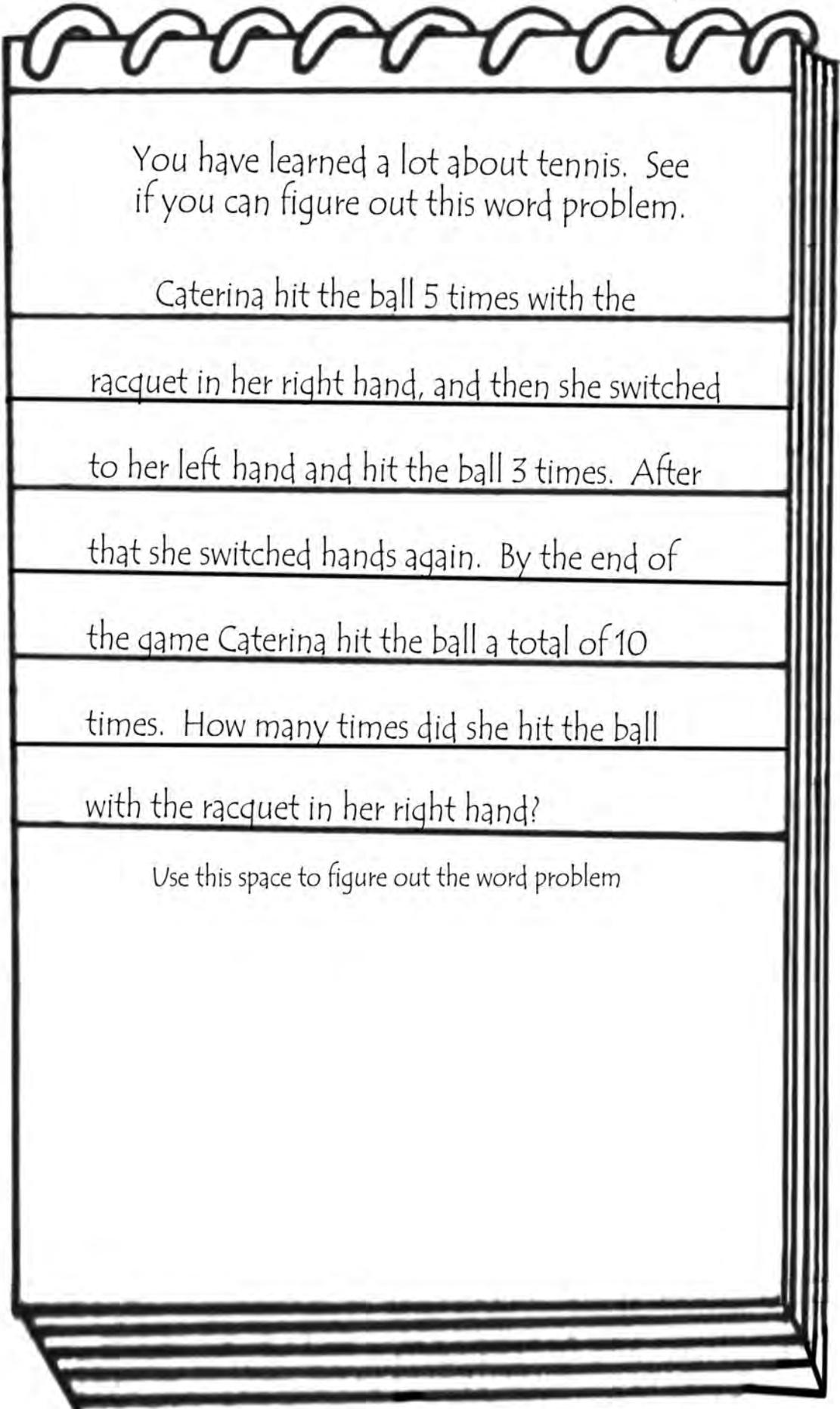


Being **ACTIVE** and **ALERT** will help me be ready to **RETURN** the ball.



When I am in the right place at the right time I can **PERFORM** well and **RETURN** the ball.





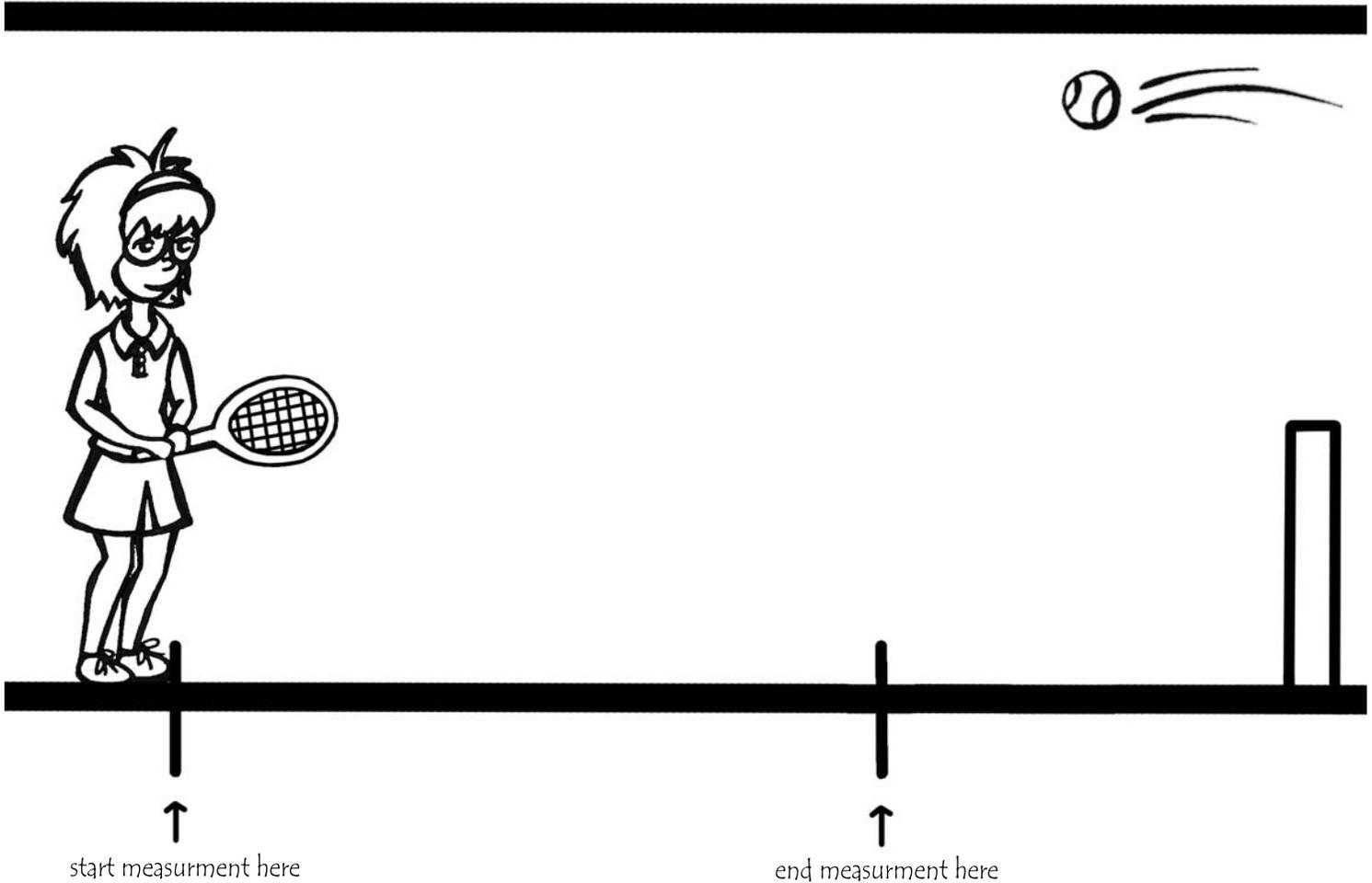
You have learned a lot about tennis. See if you can figure out this word problem.

Caterina hit the ball 5 times with the racquet in her right hand, and then she switched to her left hand and hit the ball 3 times. After that she switched hands again. By the end of the game Caterina hit the ball a total of 10 times. How many times did she hit the ball with the racquet in her right hand?

Use this space to figure out the word problem

Use a ruler to measure the distance  
Caterina must move to retrieve the ball.  
1 inch will equal 1 foot.

Write your measurement here \_\_\_\_\_.

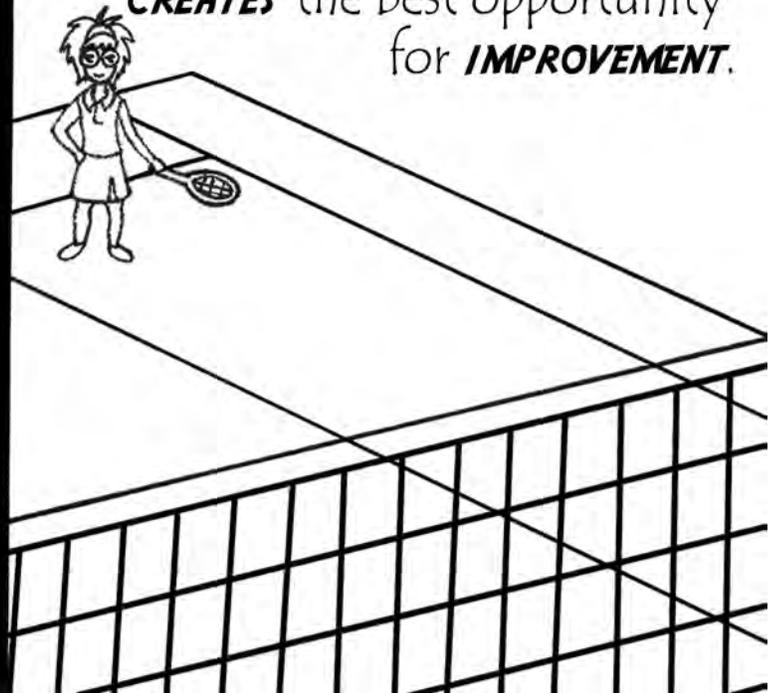


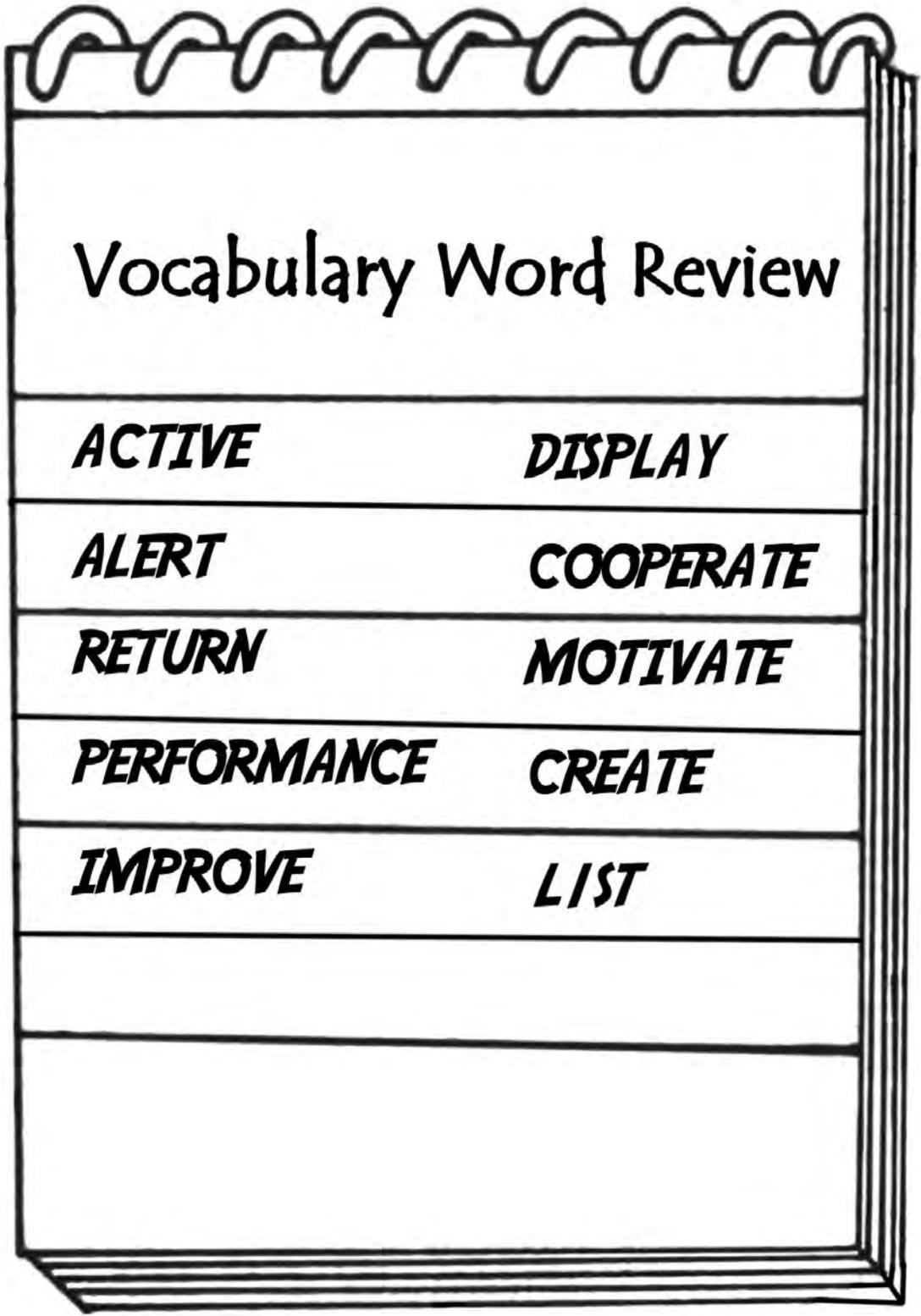


I **RETURNED** the ball!  
My **PERFORMANCE** is **IMPROVING**.



When I **COOPERATED** and stayed **MOTIVATED, ACTIVE** and **ALERT** I was able to **RETURN** the ball. The **DISPLAY** of these actions **CREATES** the best opportunity for **IMPROVEMENT**.





Vocabulary Word Review

**ACTIVE**

**DISPLAY**

**ALERT**

**COOPERATE**

**RETURN**

**MOTIVATE**

**PERFORMANCE**

**CREATE**

**IMPROVE**

**LIST**



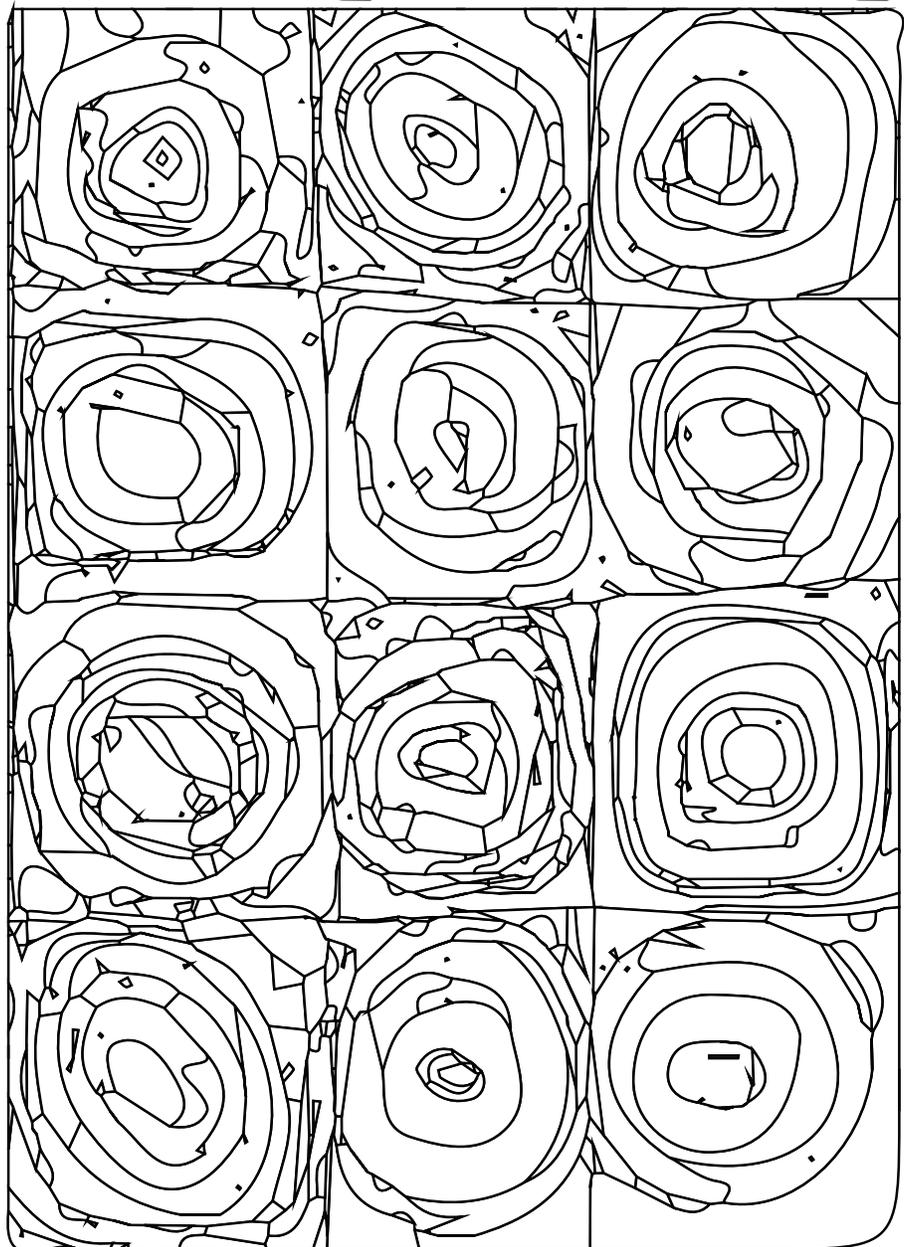
## Meet The Masters

# Wassily Kandinsky

Wassily “Vasya” Kandinsky was a proper little boy: he studied bookfuls of math and history, he practiced the piano, he sat up straight and was perfectly polite.

But when Vasya opened his paint box and began mixing the reds, the yellows, and blues, he heard a strange sound - the swirling colors trilled like an orchestra tuning up for a symphony!

As he grew older, he continued to hear brilliant colors singing and see vibrant sounds dancing, and groundbreaking works burst forth from his noisy canvas.





# CITIPARKS

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Department of Parks & Recreation

William Peduto, Mayor   Ross Chapman, Director Dept. Parks and Recreation   Rev. Ricky Burgess, Chairperson for the Committee on Urban Recreation  
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