

# I Have...Who Has...

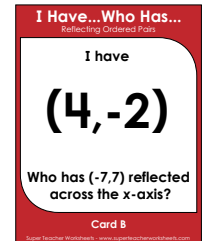
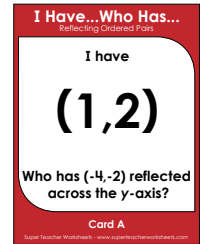
Reflecting Ordered Pairs

## How to play the game:

- Distribute the cards randomly to your students. Some students may get more than one card.
- Select a student to begin by reading their card aloud. (example: I have  $(1,2)$ . Who has  $(-4,-2)$  reflected across the y-axis?)
- The student who has the card with the correct answer to the previous student's "Who Has..." question reads their card aloud. (example: I have  $(4,-2)$ . Who has  $(-7,7)$  reflected across the x-axis?)
- Students must listen for their turn and try not to break the chain.
- When the chain reaches the student with last card, the game is over.

## Suggestions:

- Print out the "I Have, Who Has" flashcards on card stock and laminate them so they will last for many years to come.
- Practice the game once with your students so they understand how the game works, then see if they can "beat the timer." Set a timer for 2 minutes, 5 minutes, or any amount of time you choose. Challenge your students to finish the game before the timer goes off.



## Answer Chain:



# Preview

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Who has  $(8,-6)$  reflected across the y-axis?  
**G:** I have  $(-8,-6)$ .  
Who has  $(-5,3)$  reflected across both axes?  
**H:** I have  $(5,-3)$ .  
Who has  $(9,-2)$  reflected across both axes?  
**I:** I have  $(-9,2)$ .  
Who has  $(5,6)$  reflected across the x-axis?  
**J:** I have  $(5,-6)$ .  
Who has  $(9,-5)$  reflected across the y-axis?  
**K:** I have  $(-9,-5)$ .  
Who has  $(-4,-2)$  reflected across both axes?  
**L:** I have  $(4,2)$ .  
Who has  $(3,-4)$  reflected across both axes?  
**M:** I have  $(-3,4)$ .  
Who has  $(-6,1)$  reflected across the x-axis?  
**N:** I have  $(-6,-1)$ .  
Who has  $(2,-5)$  reflected across the x-axis?  
**O:** I have  $(2,5)$ .  
Who has  $(-9,5)$  reflected across the y-axis?

Who has  $(9,4)$  reflected across the x-axis?  
**V:** I have  $(9,-4)$ .  
Who has  $(5,-3)$  reflected across the x-axis?  
**W:** I have  $(5,3)$ .  
Who has  $(-1,-3)$  reflected across the y-axis?  
**X:** I have  $(1,-3)$ .  
Who has  $(-5,6)$  reflected across both axes?  
**Y:** I have  $(5,-6)$ .  
Who has  $(2,7)$  reflected across the x-axis?  
**Z:** I have  $(2,-7)$ .  
Who has  $(-9,2)$  reflected across the y-axis?  
**AA:** I have  $(9,2)$ .  
Who has  $(8,1)$  reflected across both axes?  
**BB:** I have  $(-8,-1)$ .  
Who has  $(-2,-3)$  reflected across the x-axis?  
**CC:** I have  $(-2,3)$ .  
Who has  $(8,9)$  reflected across the y-axis?  
**DD:** I have  $(-8,9)$ .  
Who has  $(-1,-2)$  reflected across both axes?

## I Have...Who Has...

Reflecting Ordered Pairs

I have

**(1,2)**

Who has  $(-4,-2)$  reflected  
across the y-axis?

## I Have...Who Has...

Reflecting Ordered Pairs

I have

**(4,-2)**

Who has  $(-7,7)$  reflected  
across the x-axis?



# Preview

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**(-7,-7)**

Who has  $(4,9)$  reflected  
across the x-axis?

Card C

**(4,-9)**

Who has  $(-6,1)$  reflected  
across both axes?

Card D

## I Have...Who Has...

Reflecting Ordered Pairs

I have

$(6, -1)$

Who has  $(1, 8)$  reflected  
across the y-axis?

## I Have...Who Has...

Reflecting Ordered Pairs

I have

$(-1, 8)$

Who has  $(8, -6)$  reflected  
across the y-axis?



# Preview

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$(-8, -6)$

Who has  $(-5, 3)$  reflected  
across both axes?

Card G

$(5, -3)$

Who has  $(9, -2)$  reflected  
across both axes?

Card H

## I Have...Who Has...

Reflecting Ordered Pairs

I have

**$(-9, 2)$**

Who has  $(5, 6)$  reflected  
across the x-axis?

## I Have...Who Has...

Reflecting Ordered Pairs

I have

**$(5, -6)$**

Who has  $(9, -5)$  reflected  
across the y-axis?



# Preview

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**$(-9, -5)$**

Who has  $(-4, -2)$  reflected  
across both axes?

Card K

**$(4, 2)$**

Who has  $(3, -4)$  reflected  
across both axes?

Card L

## I Have...Who Has...

Reflecting Ordered Pairs

I have

**$(-3, 4)$**

Who has  $(-6, 1)$  reflected  
across the x-axis?

## I Have...Who Has...

Reflecting Ordered Pairs

I have

**$(-6, -1)$**

Who has  $(2, -5)$  reflected  
across the x-axis?



# Preview

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**$(2, 5)$**

Who has  $(-9, 5)$  reflected  
across the y-axis?

Card O

**$(9, 5)$**

Who has  $(3, -2)$  reflected  
across both axes?

Card P

## I Have...Who Has...

Reflecting Ordered Pairs

I have

**$(-3, 2)$**

Who has  $(7, -2)$  reflected  
across the x-axis?

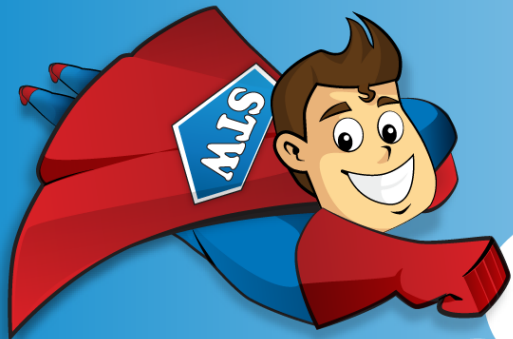
## I Have...Who Has...

Reflecting Ordered Pairs

I have

**$(7, 2)$**

Who has  $(3, -4)$  reflected  
across the y-axis?



# Preview

Please log in to download  
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**$(-3, -4)$**

Who has  $(6, -8)$  reflected  
across the y-axis?

Card S

**$(-6, -8)$**

Who has  $(-7, -7)$  reflected  
across both axes?

Card T

## I Have...Who Has...

Reflecting Ordered Pairs

I have

**(7,7)**

Who has (9,4) reflected  
across the x-axis?

## I Have...Who Has...

Reflecting Ordered Pairs

I have

**(9,-4)**

Who has (5,-3) reflected  
across the x-axis?



# Preview

Please log in to download  
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**(5,3)**

Who has (-1,-3) reflected  
across the y-axis?

Card W

**(1,-3)**

Who has (-5,6) reflected  
across both axes?

Card X

## I Have...Who Has...

Reflecting Ordered Pairs

I have

$(5, -6)$

Who has  $(2, 7)$  reflected  
across the x-axis?

## I Have...Who Has...

Reflecting Ordered Pairs

I have

$(2, -7)$

Who has  $(-9, 2)$  reflected  
across the y-axis?



# Preview

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$(9, 2)$

Who has  $(8, 1)$  reflected  
across both axes?

Card AA

$(-8, -1)$

Who has  $(-2, -3)$  reflected  
across the x-axis?

Card BB



## I Have...Who Has...

Reflecting Ordered Pairs

I have

**$(-2, 3)$**

Who has  $(8, 9)$  reflected  
across the y-axis?

## I Have...Who Has...

Reflecting Ordered Pairs

I have

**$(-8, 9)$**

Who has  $(-1, -2)$  reflected  
across both axes?



# Preview

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Fold this page in half to store the cards in when not in use.

## Answer Chain:

- A:** I have (1,2).  
Who has (-4,-2) reflected across the y-axis?
- B:** I have (4,-2).  
Who has (-7,7) reflected across the x-axis?
- C:** I have (-7,-7).  
Who has (4,9) reflected across the x-axis?
- D:** I have (4,-9).  
Who has (-6,1) reflected across both axes?
- E:** I have (6,-1).  
Who has (1,8) reflected across the y-axis?
- F:** I have (-1,8).  
Who has (8,-6) reflected across the y-axis?
- G:** I have (-8,-6).  
Who has (-5,3) reflected across both axes?
- H:** I have (5,-3).  
Who has (9,-2) reflected across both axes?
- I:** I have (-9,2).  
Who has (5,6) reflected across the x-axis?
- J:** I have (5,-6).  
Who has (9,-5) reflected across the y-axis?
- K:** I have (-9,-5).  
Who has (-4,-2) reflected across both axes?
- L:** I have (4,2).  
Who has (3,-4) reflected across both axes?
- M:** I have (-3,4).  
Who has (-6,1) reflected across the x-axis?
- N:** I have (-6,-1).  
Who has (2,-5) reflected across the x-axis?
- O:** I have (2,5).  
Who has (-9,5) reflected across the y-axis?

- P:** I have (9,5).  
Who has (3,-2) reflected across both axes?
- Q:** I have (-3,2).  
Who has (7,-2) reflected across the x-axis?
- R:** I have (7,2).  
Who has (3,-4) reflected across the y-axis?
- S:** I have (-3,-4).  
Who has (6,-8) reflected across the y-axis?
- T:** I have (-6,-8).  
Who has (-7,-7) reflected across both axes?
- U:** I have (7,7).  
Who has (9,4) reflected across the x-axis?
- V:** I have (9,-4).  
Who has (5,-3) reflected across the x-axis?
- W:** I have (5,3).  
Who has (-1,-3) reflected across the y-axis?
- X:** I have (1,-3).  
Who has (-5,6) reflected across both axes?
- Y:** I have (5,-6).  
Who has (2,7) reflected across the x-axis?
- Z:** I have (2,-7).  
Who has (-9,2) reflected across the y-axis?
- AA:** I have (9,2).  
Who has (8,1) reflected across both axes?
- BB:** I have (-8,-1).  
Who has (-2,-3) reflected across the x-axis?
- CC:** I have (-2,3).  
Who has (8,9) reflected across the y-axis?
- DD:** I have (-8,9).  
Who has (-1,-2) reflected across both axes?



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Reflecting Ordered Pairs

I Have - Who Has