

NAME _____

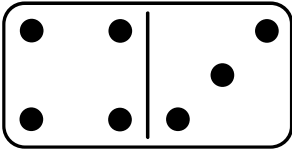
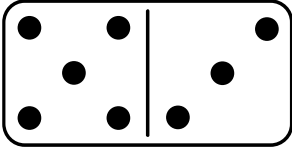
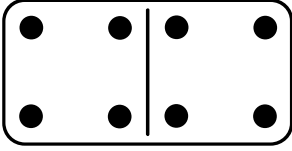
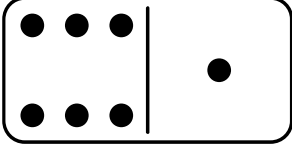
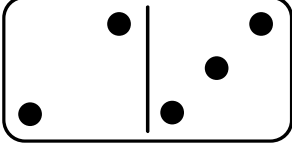
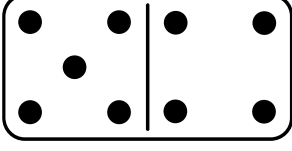
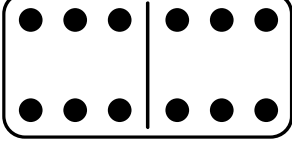
DATE _____



One More Dot, One Less Dot page 1 of 2

1 In the table below:

- Look at the domino in the middle and write how many dots you see.
- In the box to the left, write the number that is 1 less than the number of dots on the domino.
- In the box to the right, write the number that is 1 more than the number of dots on the domino.

One Less Dot	How Many Dots?	One More Dot
ex 6		<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">7</div>
a		<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div>
b		<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div>
c		<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div>
d		<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div>
e		<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div>
f		<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div>

(continued on next page)

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One More Dot, One Less Dot page 2 of 2

2 In the table below:

- Look at the number in the middle and draw that many dots on the domino.
- In the box to the left, put an X on the domino with 1 less dot than your domino.
- In the box to the right, put an X on the domino with 1 more dot than your domino.

	One Less Dot	Draw the Dots	One More Dot
ex		<div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center; font-weight: bold;">4</div> <div style="border: 1px solid black; padding: 10px; width: 150px; height: 60px; display: flex; justify-content: space-around; align-items: center;"> <div style="border-right: 1px solid black; width: 50%; height: 100%; display: flex; flex-direction: column; justify-content: space-around;"> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; margin: 5px;"></div> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; margin: 5px;"></div> </div> <div style="width: 50%; height: 100%; display: flex; flex-direction: column; justify-content: space-around;"> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; margin: 5px;"></div> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; margin: 5px;"></div> </div> </div> </div>	
a		<div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center; font-weight: bold;">5</div> <div style="border: 1px solid black; padding: 10px; width: 150px; height: 60px; display: flex; justify-content: center; align-items: center;"> <div style="border-right: 1px solid black; width: 50%; height: 100%;"></div> <div style="width: 50%; height: 100%;"></div> </div> </div>	
b		<div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center; font-weight: bold;">8</div> <div style="border: 1px solid black; padding: 10px; width: 150px; height: 60px; display: flex; justify-content: center; align-items: center;"> <div style="border-right: 1px solid black; width: 50%; height: 100%;"></div> <div style="width: 50%; height: 100%;"></div> </div> </div>	
c		<div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center; font-weight: bold;">6</div> <div style="border: 1px solid black; padding: 10px; width: 150px; height: 60px; display: flex; justify-content: center; align-items: center;"> <div style="border-right: 1px solid black; width: 50%; height: 100%;"></div> <div style="width: 50%; height: 100%;"></div> </div> </div>	
d		<div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center; font-weight: bold;">9</div> <div style="border: 1px solid black; padding: 10px; width: 150px; height: 60px; display: flex; justify-content: center; align-items: center;"> <div style="border-right: 1px solid black; width: 50%; height: 100%;"></div> <div style="width: 50%; height: 100%;"></div> </div> </div>	



Domino Magic Squares page 1 of 2

How many dots?

Add the dots on the dominoes going down each column and then going across each row. Then add the sums both ways, vertically and horizontally. Do you get the same total both times? Is it magic, or is there a mathematical explanation?

ex

Add $\xrightarrow{\hspace{10em}}$

	=	5
	+	
	=	5
6 + 4 = 10		

1 Add $\xrightarrow{\hspace{10em}}$

	=	
	+	
	=	
 + = 		

2 Add $\xrightarrow{\hspace{10em}}$

	=	
	+	
	=	
 + = 		

3 Add $\xrightarrow{\hspace{10em}}$

	=	
	+	
	=	
 + = 		

4 Add $\xrightarrow{\hspace{10em}}$

	=	
	+	
	=	
 + = 		

(continued on next page)

Domino Magic Squares page 2 of 2

5 Add \rightarrow

	•	=	
+			
••	••	=	
+			
		=	

6 Add \rightarrow

•	•	=	
+			
••	•••	=	
+			
		=	

Challenge Problems

7 Add \rightarrow

••	••	=	
+			
•	•••	=	
+			
		=	

8 Add \rightarrow

••	••	=	
+			
••	•••	=	
+			
		=	

Make up your own magic square problem below. Draw between 1 and 6 dots on each side of the two dominoes. Then add the dots on the dominoes going down and going across. Then add the sums both ways. Do you get the same total both times? Is it magic?

Add \rightarrow

		=	
+			
		=	
+			
		=	