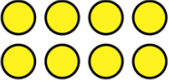


Arrays, Area Models & Commutative Property

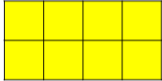
Array



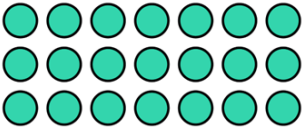
2 $\times$ **4** = **8**

number of rows number in each row product

Area Model



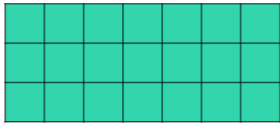
Type the equation for each model.



3 $\times$ **7** = **21**

rows of





3 $\times$ **7** = **21**

rows of

MARVELMath

MacBook Pro

Interactive Google Slides

3rd
GRADE

The Commutative Property

factor factor product

$$5 \times 6 = 8$$


$$6 \times 5 = 8$$



MARVELMath



I can switch the **order** of the factors when I multiply. I will still get the same **product**.

Use the vocabulary words below to complete the statement.



sum

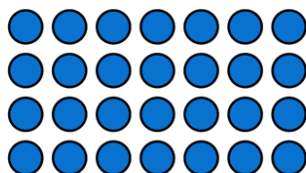
value



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**1**

Write a multiplication equation to represent this array.

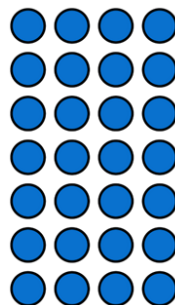


$$\boxed{4} \times \boxed{7} = \boxed{28}$$

rows of

2

Rotate this array. Write a multiplication equation to represent the new array.



$$\boxed{7} \times \boxed{4} = \boxed{28}$$

rows of

?

The **number of dots** in these arrays is:

☒ **Equal**☐ **Not Equal**

The **products** of these equations are:

☒ **Equal**☐ **Not Equal****4**

Write an equation to show that these multiplication problems are equal.

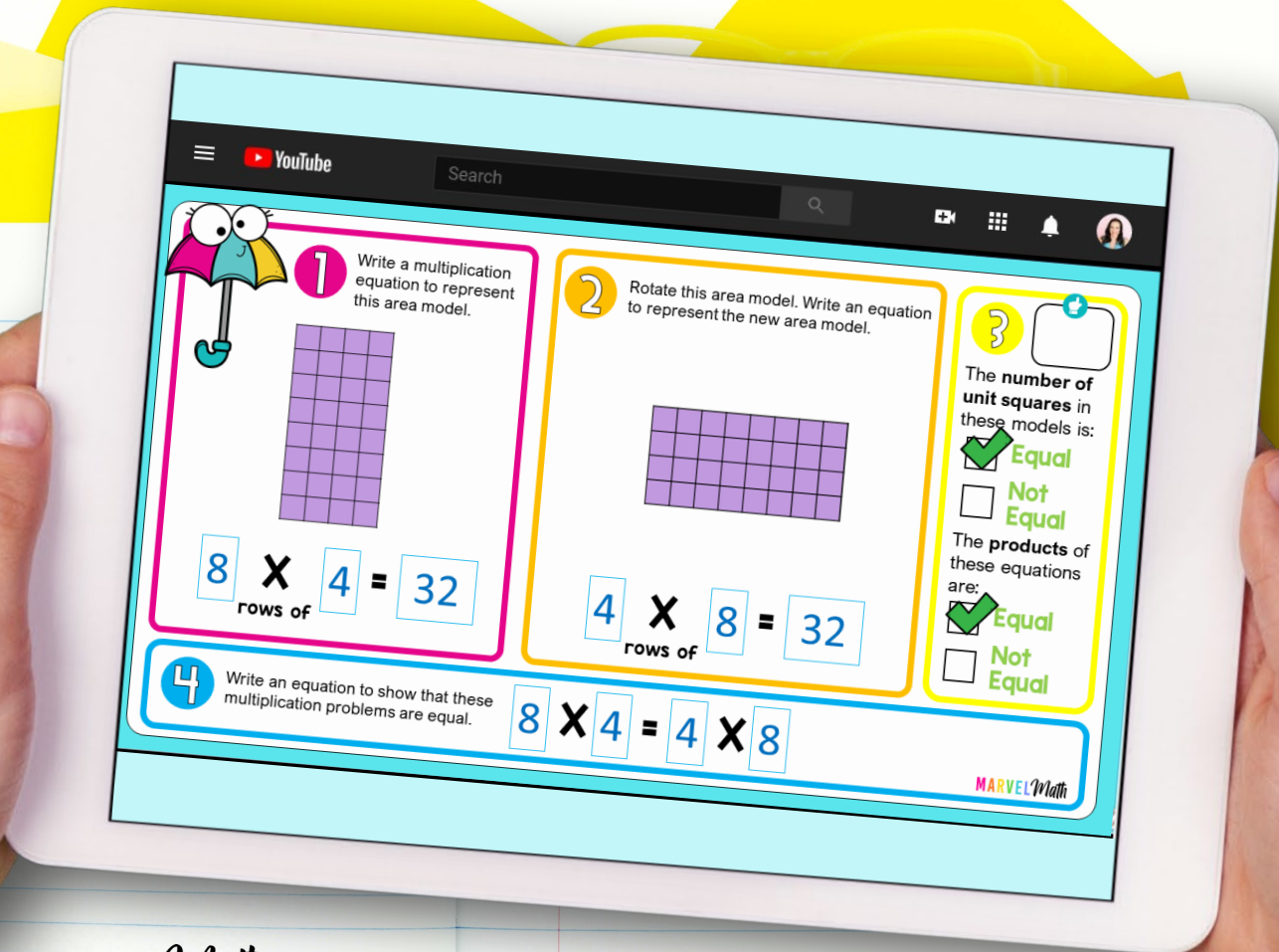
$$\boxed{4} \times \boxed{7} = \boxed{7} \times \boxed{4}$$

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Fun & Engaging Practice Students Enjoy!

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Video Instructions Inside the Google Slides Activity



Students use
Moveable Pieces to
model the
problems.

1 Write a multiplication equation to represent this array.

$\square \times \square = \square$
rows of

2 Rotate this array. Write a multiplication equation to represent the new array.

$\square \times \square = \square$
rows of

4 Write an equation to show that these multiplication problems are equal.

$\square \times \square = \square \times \square$

The number of dots in these arrays is:

☐ Equal
☐ Not Equal

The products of these equations are:

☐ Equal
☐ Not Equal

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1 Write a multiplication equation to represent this array.

$4 \times 7 = 28$
rows of

2 Rotate this array. Write a multiplication equation to represent the new array.

$7 \times 4 = 28$
rows of

4 Write an equation to show that these multiplication problems are equal.

$4 \times 7 = 7 \times 4$

The number of dots in these arrays is:

☒ Equal
☐ Not Equal

The products of these equations are:

☒ Equal
☐ Not Equal

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Embedded Vocabulary
for the
practice
students
need

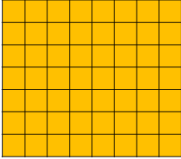
No Prep

Easy to Assign

Easy to Use

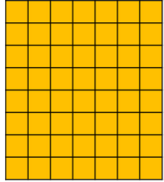


1 Write a multiplication equation to represent this area model.



7 X **8** = **56**
rows of

2 Rotate this area model. Write an equation to represent the new area model.



8 X **7** = **56**
rows of

3 The number of unit squares in these models is:

☒ Equal
☐ Not Equal

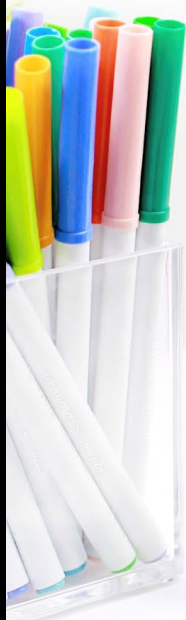
The products of these equations are:

☒ Equal
☐ Not Equal

4 Write an equation to show that these multiplication problems are equal.

7 X **8** = **8** X **7**

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Ways to Use This Resource:

-  **Math Station** – Students can watch the video instructions and complete the activity independently
-  **Whole Class Teaching** – Use the interactive slides to teach this concept during your lesson
-  **Tutoring** – Use the slides for a focused lesson that doesn't need any prep