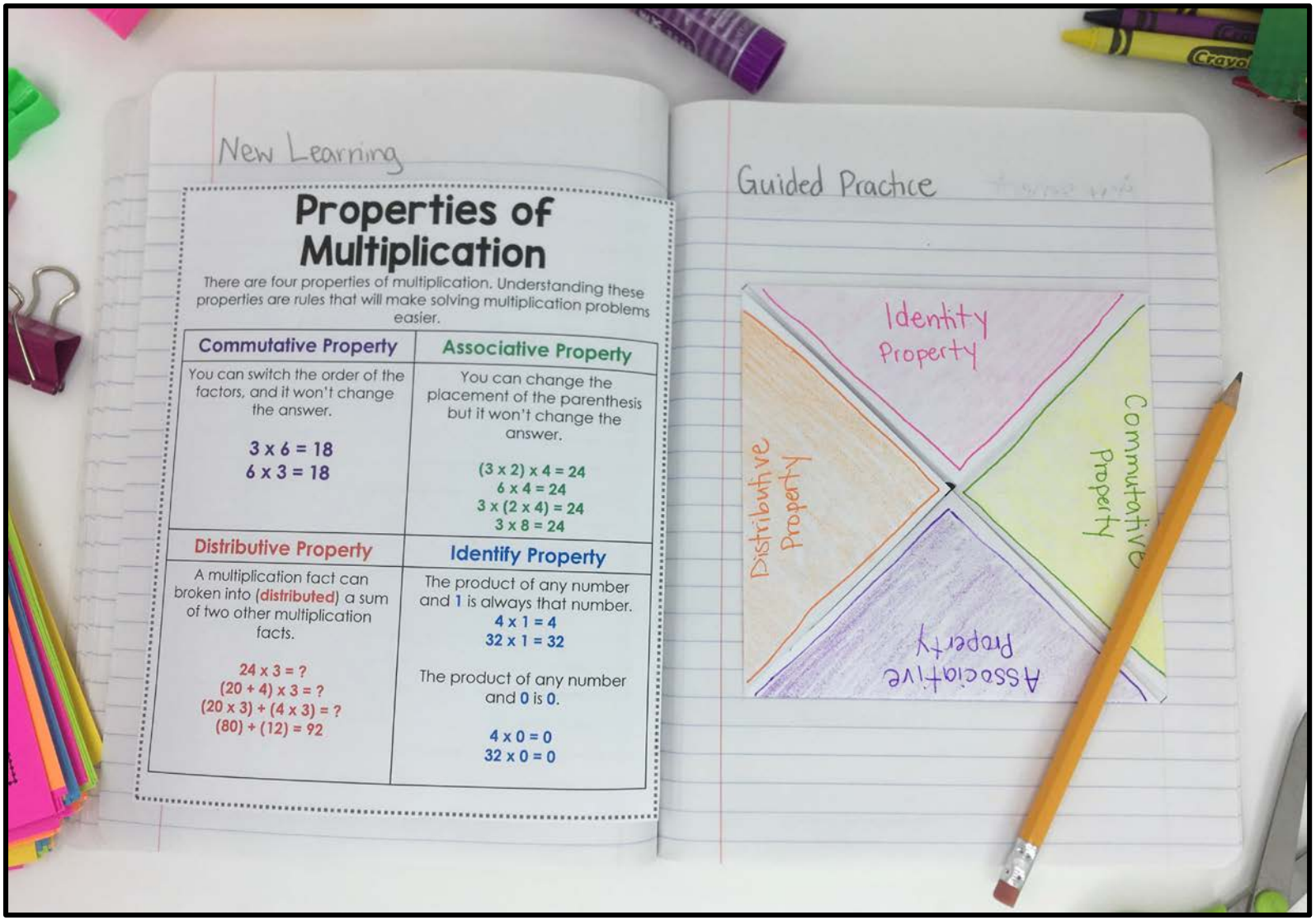
Multiplication Interactive Math Notebook



Activities to TEACH, REINFORCE and ASSESS each skill

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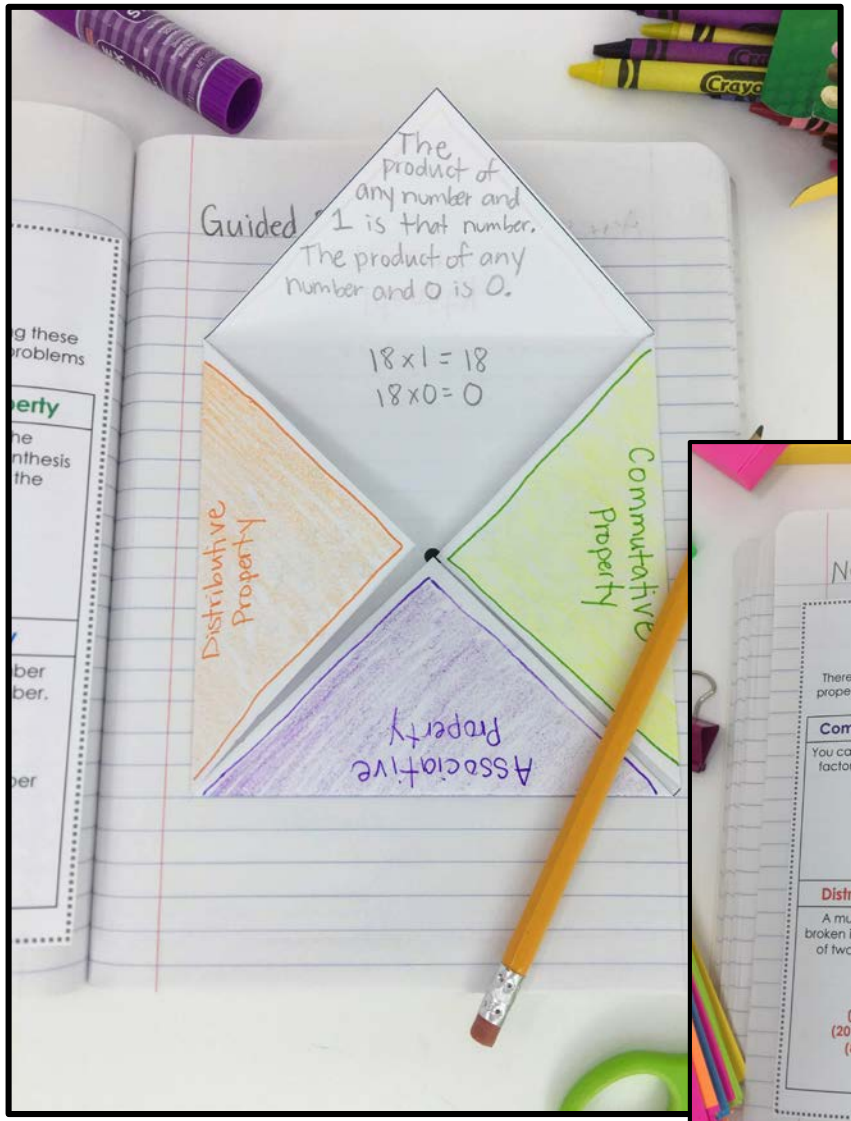
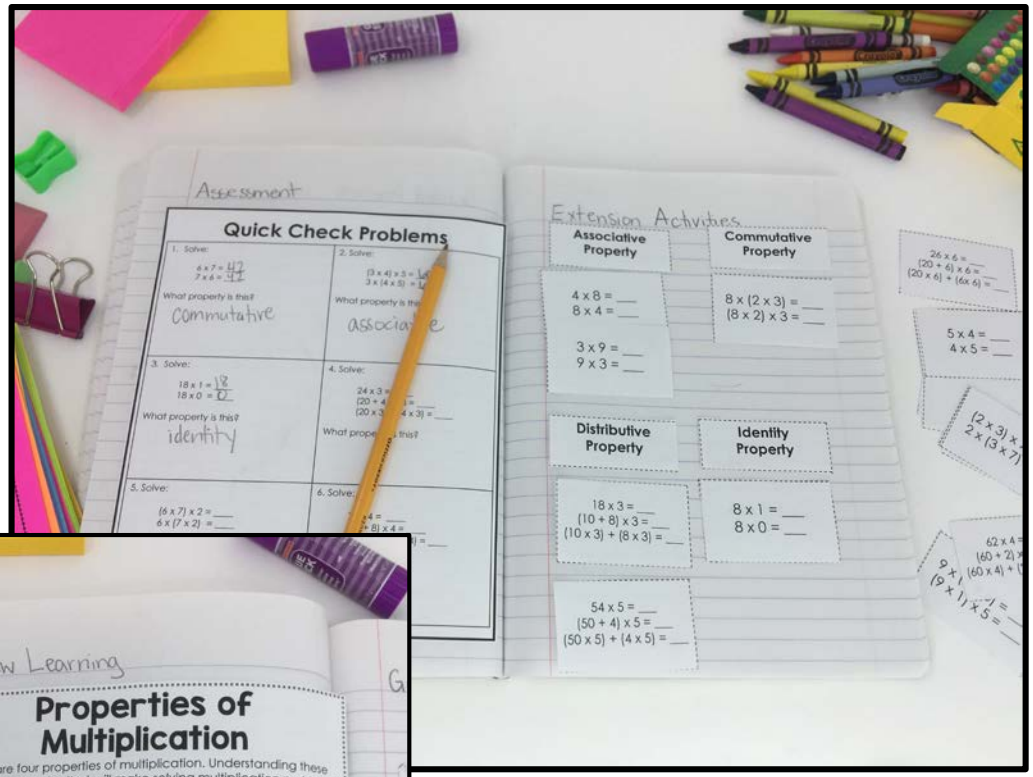
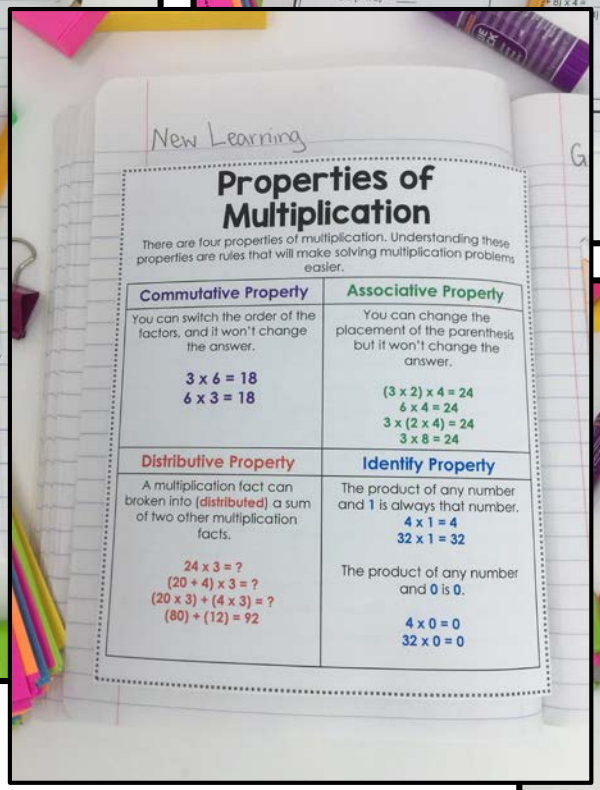
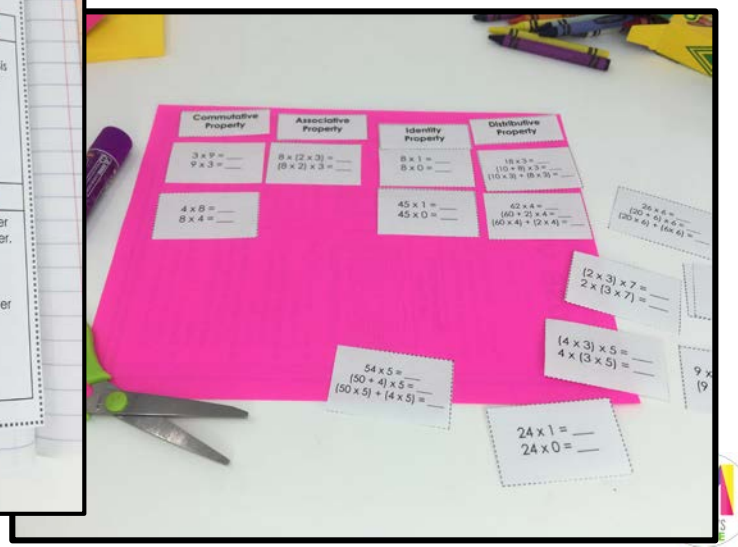
Informative, Engaging & Interactive









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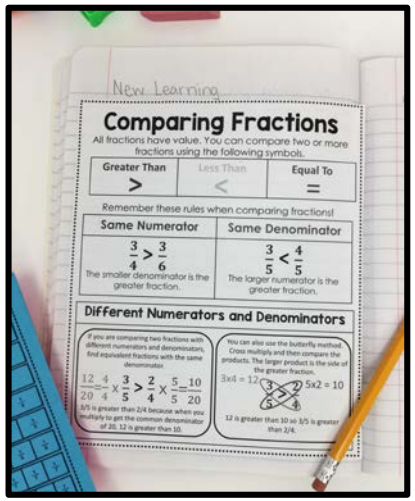
What's Included?

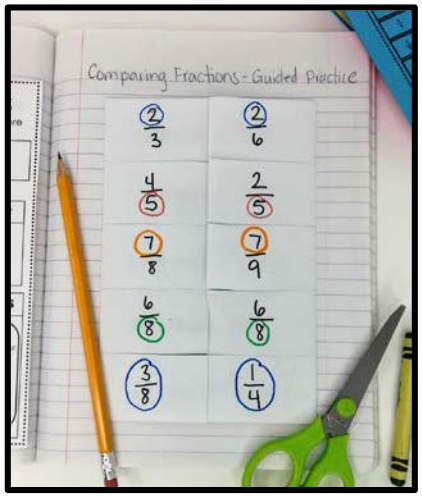
Each skill has these four elements:

Anchor Chart



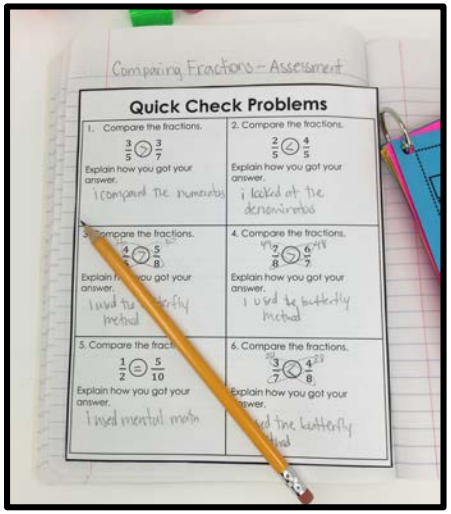
Great tool to introduce new math skill to students. Student friendly and fits perfectly in journals.

Interactive Foldable



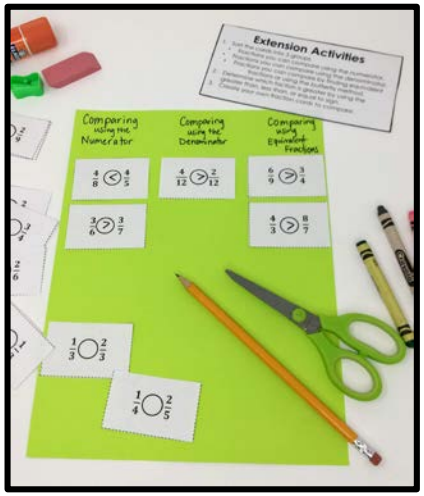
Works great as guided practice and gives students an interactive opportunity to practice the new skill.

Exit Ticket



Great way to assess students at the end of the lesson or to use as a spiral review a few weeks after the lesson is taught.

Extension Activity



Works great as early finisher work or in a math work station.

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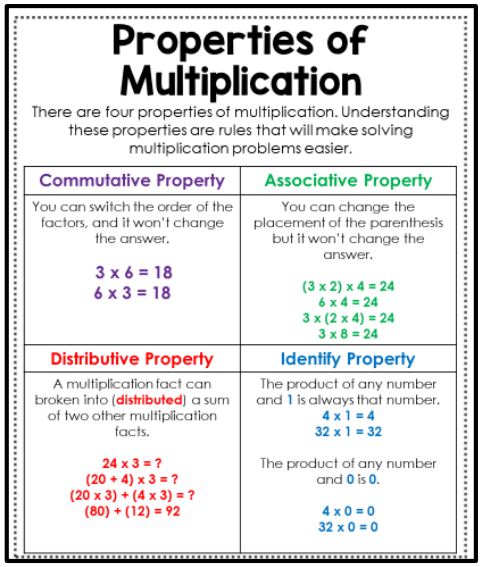
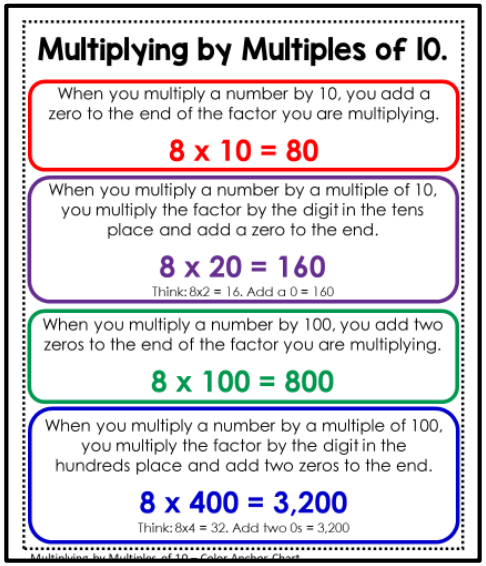
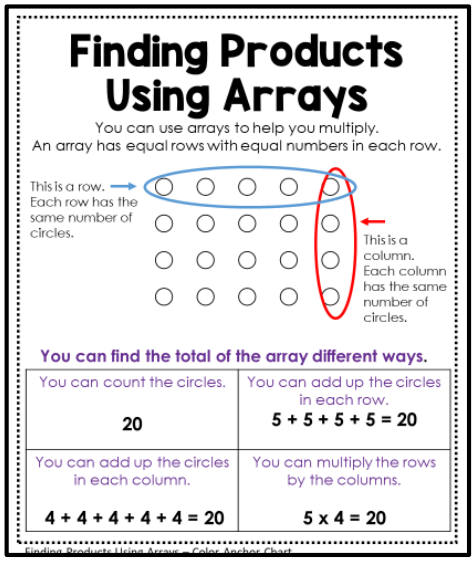
What Skills are Covered?



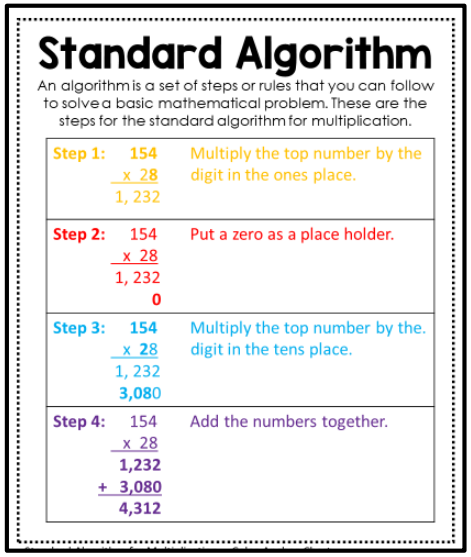
Properties of Multiplication



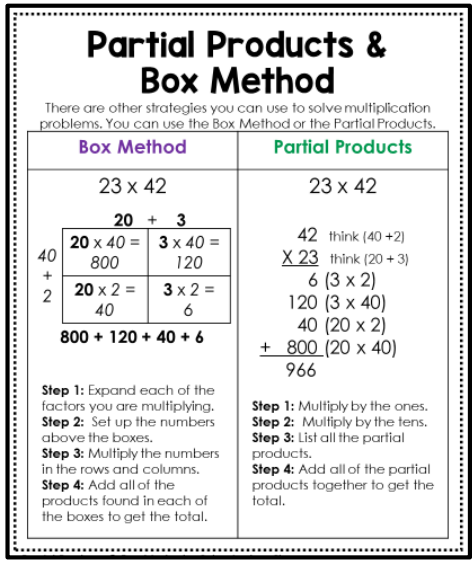
Multiplying by Multiples of 10



Finding Product Using Arrays



Standard Algorithm



Partial Products & Box Method

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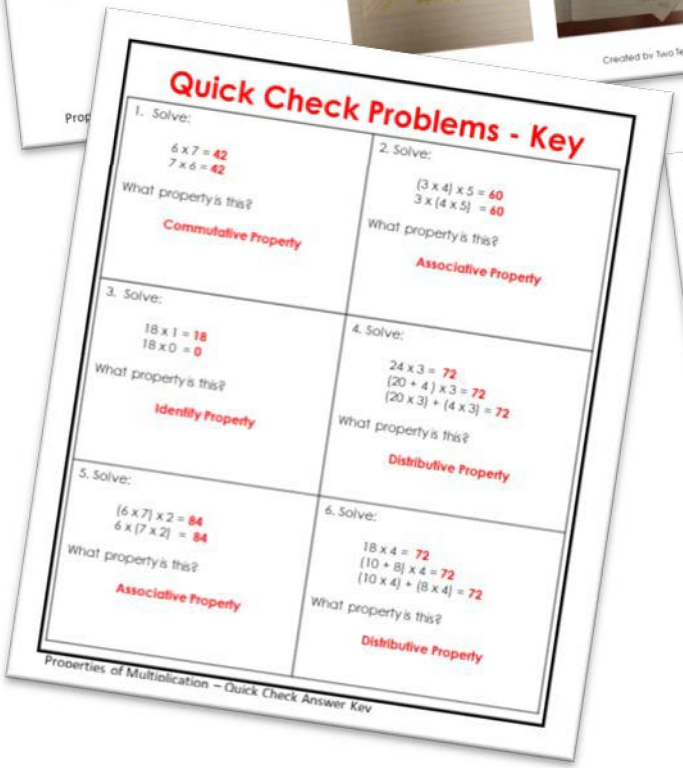
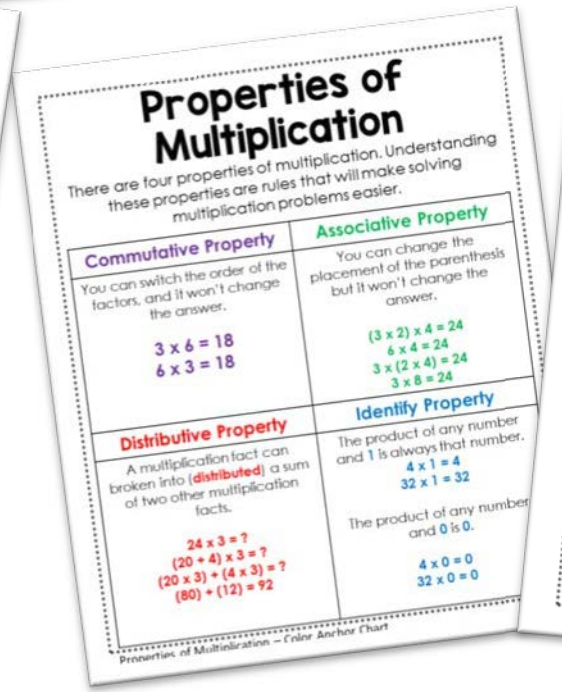
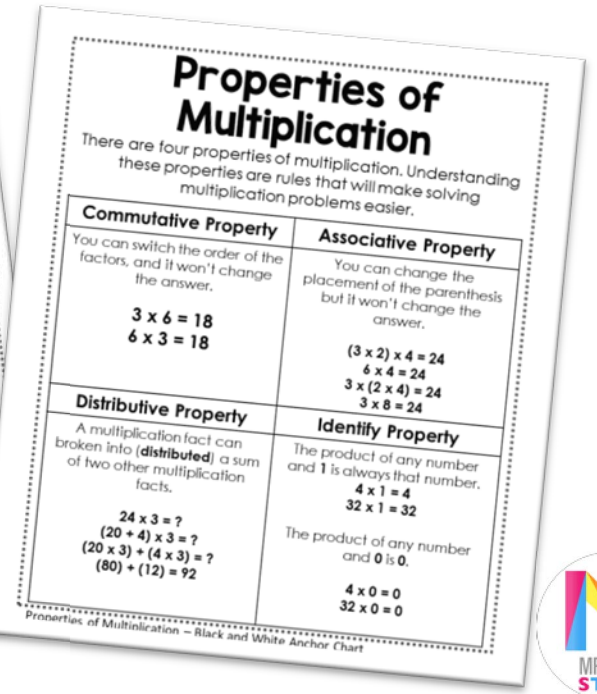
Additional Features







- Includes **assembly notes** and **directions** for each entry
- Includes **answer key** for each exit ticket
- Includes **black and white** or **color options** for each anchor chart

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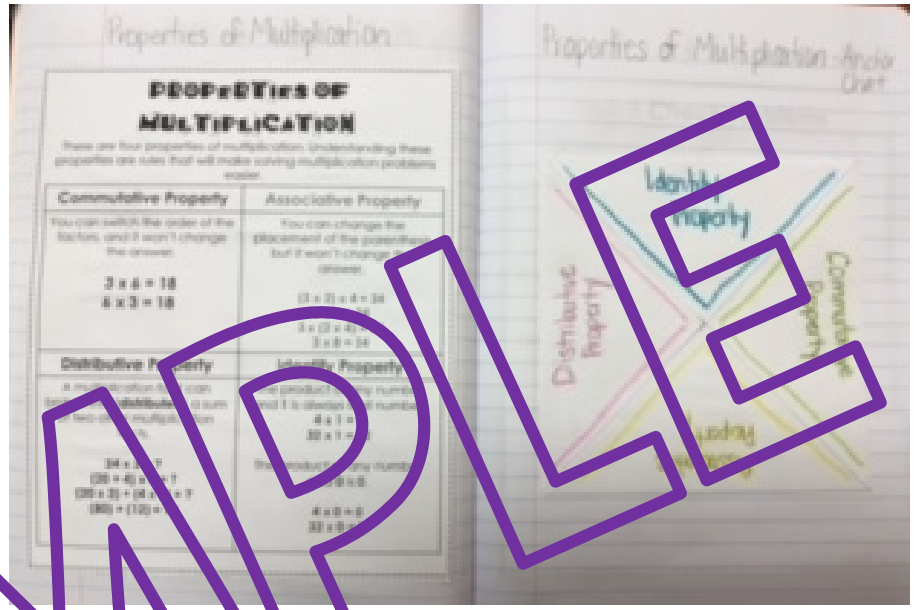
Properties of Multiplication – Assembly Notes & Directions

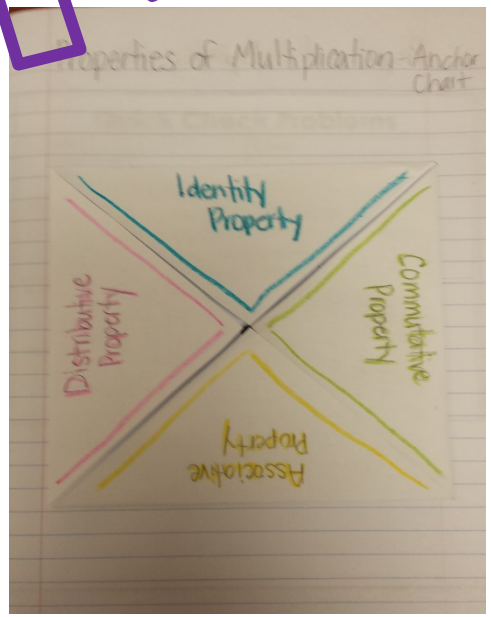
Anchor Chart
Make enough copies for students. Have students cut and paste in their math journal. Review anchor chart with students as you would a full size anchor chart. Students will be able to reference back to this page if they have questions about place value.



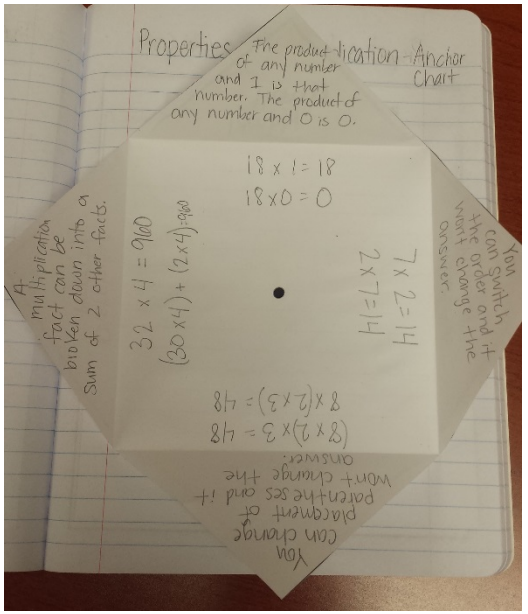
SAMPLE

Foldable
See the example provided in the pictures to the right. Create foldable with students. You can modify the examples to meet your students specific learning needs.

Foldable - Outside



Foldable - Inside



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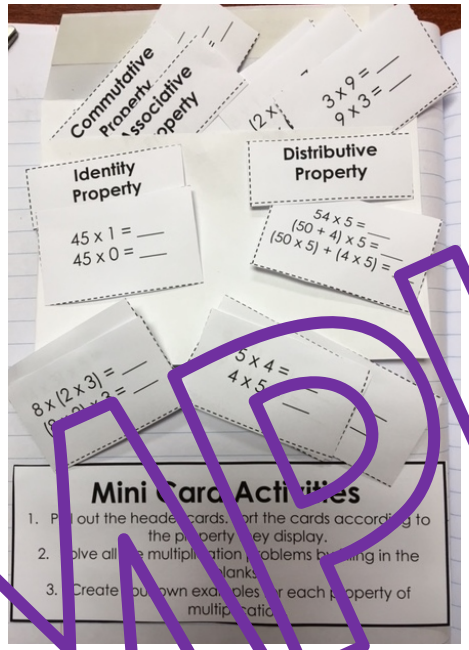
Properties of Multiplication – Assembly Notes & Directions

SAMPLE

Extension Activities

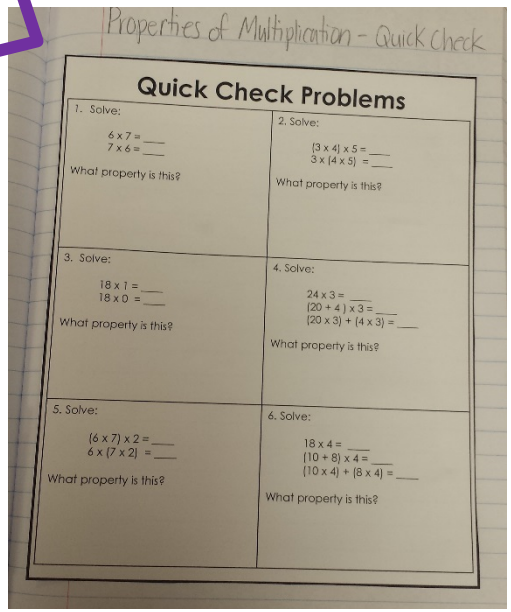
Give each student a copy of the Extension Activities list to place in their journal as well as a copy of the mini cards. Have students glue a small envelope into their math journal to store their mini cards. You can use the mini card activities as an extension or early finisher activity.



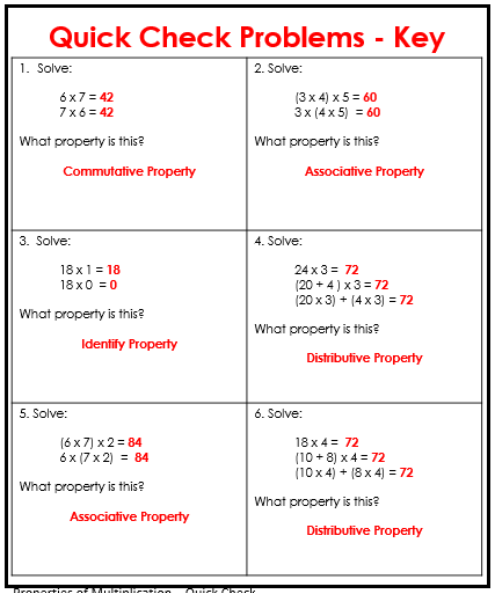
Quick Check

Give each student a copy of the Quick Check sheet. Students can glue them in their math journal as a reference page, or you can collect them. The quick check can be used as a formative assessment to see where your students level of mastery is after you have spent a few days practicing the skill.

Quick Check



Quick Check - Key



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Properties of Multiplication

There are four properties of multiplication. Understanding these properties are rules that will make solving multiplication problems easier.

Commutative Property

You can switch the order of the factors, and it won't change the answer.

3 x 6 = 18
6 x 3 = 18

Associative Property

You can change the placement of the parenthesis but it won't change the answer.

(3 x 2) x 4 = 24
6 x 4 = 24
3 x (2 x 4) = 24
3 x 8 = 24

Distributive Property

A multiplication fact can be broken into (**distributed**) a sum of two other multiplication facts.

24 x 3 = ?
(20 + 4) x 3 = ?
(20 x 3) + (4 x 3) = ?
(80) + (12) = 92

Identify Property

The product of any number and **1** is always that number.

4 x 1 = 4
32 x 1 = 32

The product of any number and **0** is **0**.

4 x 0 = 0
32 x 0 = 0

SAMPLE

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Properties of Multiplication

There are four properties of multiplication. Understanding these properties are rules that will make solving multiplication problems easier.

Commutative Property	Associative Property
You can switch the order of the factors, and it won't change the answer. **3 x 6 = 18** **6 x 3 = 18**	You can change the placement of the parenthesis but it won't change the answer. **(3 x 2) x 4 = 24** **6 x 4 = 24** **3 x (2 x 4) = 24** **3 x 8 = 24**
Distributive Property	**Identify Property**
A multiplication fact can broken into (**distributed**) a sum of two other multiplication facts. **24 x 3 = ?** **(20 + 4) x 3 = ?** **(20 x 3) + (4 x 3) = ?** **(80) + (12) = 92**	The product of any number and **1** is always that number. **4 x 1 = 4** **32 x 1 = 32** The product of any number and **0** is **0**. **4 x 0 = 0** **32 x 0 = 0**

SAMPLE

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Extension Activities

1. Pull out the header cards. Sort the cards according to the property they display.
2. Solve all the multiplication problems by filling in the blanks.
3. Create your own examples for each property of multiplication.

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1. Pull out the header cards. Sort the cards according to the property they display.
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SAMPLE

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Commutative Property	Associative Property	Distributive Property	Identity Property
5 x 4 = ___ 4 x 5 = ___	7 x 6 = ___ 6 x 7 = ___	3 x 9 = ___ 9 x 3 = ___	4 x 8 = ___ 8 x 4 = ___
(2 x 3) x 7 = ___ 2 x (3 x 7) = ___	(4 x 3) x 5 = ___ 4 x (3 x 5) = ___	8 x (2 x 3) = ___ (8 x 2) x 3 = ___	9 x (1 x 5) = ___ (9 x 1) x 5 = ___
24 x 1 = ___ 24 x 0 = ___	19 x 1 = ___ 19 x 0 = ___	8 x 1 = ___ 8 x 0 = ___	45 x 1 = ___ 45 x 0 = ___
18 x 3 = ___ (10 + 8) x 3 = ___ (10 x 3) + (8 x 3) = ___	54 x 5 = ___ (50 + 4) x 5 = ___ (50 x 5) + (4 x 5) = ___	62 x 4 = ___ (60 + 2) x 4 = ___ (60 x 4) + (2 x 4) = ___	26 x 6 = ___ (20 + 6) x 6 = ___ (20 x 6) + (6x 6) = ___

SAMPLE

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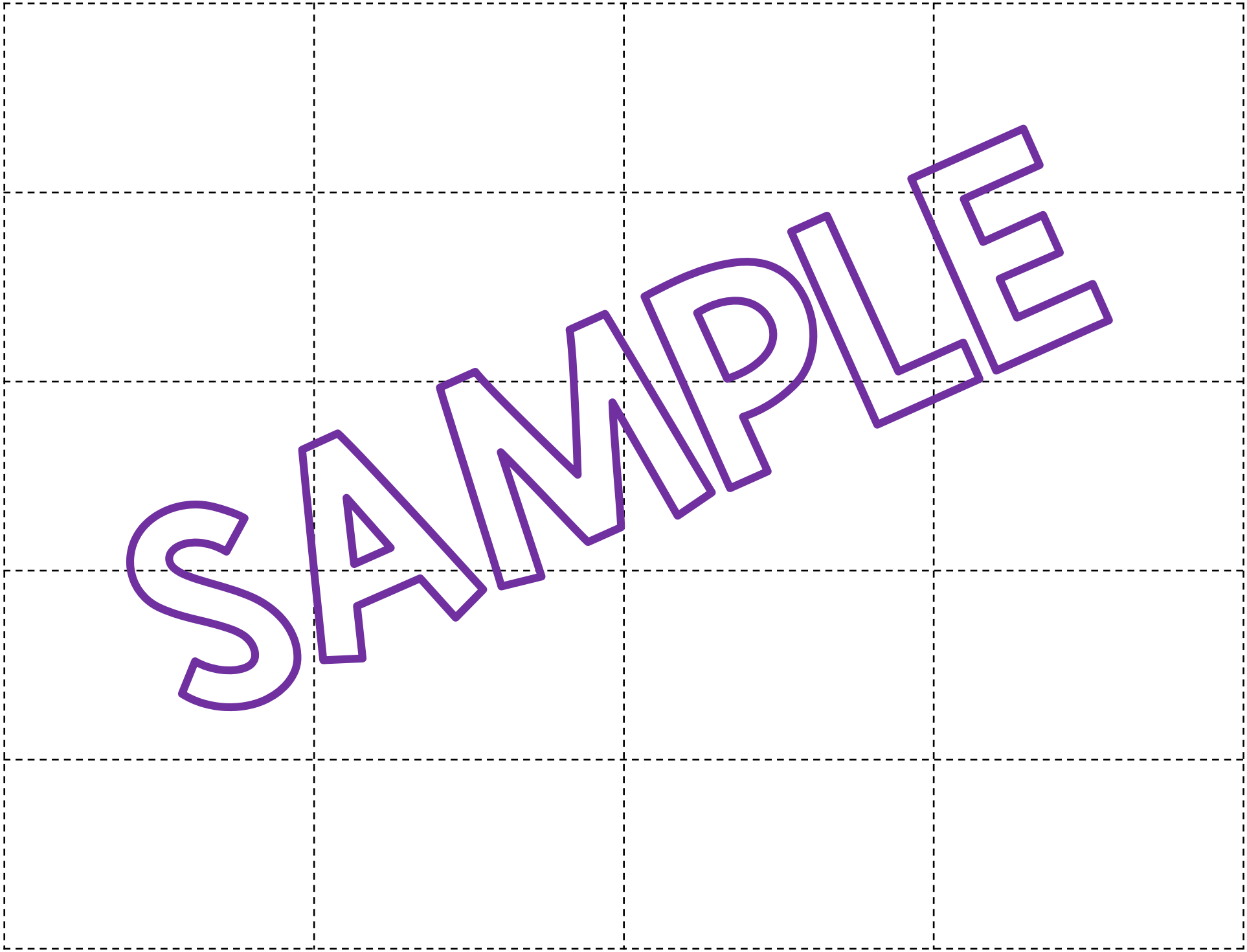

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Quick Check Problems

1. Solve:

6 x 7 = ____
7 x 6 = ____

What property is this?

2. Solve:

(3 x 4) x 5 = ____
3 x (4 x 5) = ____

What property is this?

3. Solve:

18 x 1 = ____
18 x 0 = ____

What property is this?

4. Solve:

24 x 3 = ____
(20 + 4) x 3 = ____
(20 x 3) + (4 x 3) = ____

What property is this?

5. Solve:

(6 x 7) x 2 = ____
6 x (7 x 2) = ____

What property is this?

6. Solve:

18 x 4 = ____
(10 + 8) x 4 = ____
(10 x 4) + (8 x 4) = ____

What property is this?

SAMPLE

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Quick Check Problems - Key

1. Solve:

6 x 7 = **42**
7 x 6 = **42**

What property is this?

Commutative Property

2. Solve:

(3 x 4) x 5 = **60**
3 x (4 x 5) = **60**

What property is this?

Associative Property

3. Solve:

18 x 1 = **18**
18 x 0 = **0**

What property is this?

Identity Property

4. Solve:

24 x 3 = **72**
(20 + 4) x 3 = **72**
(20 x 3) + (4 x 3) = **72**

What property is this?

Distributive Property

5. Solve:

(6 x 7) x 2 = **84**
6 x (7 x 2) = **84**

What property is this?

Associative Property

6. Solve:

18 x 4 = **72**
(10 + 8) x 4 = **72**
(10 x 4) + (8 x 4) = **72**

What property is this?

Distributive Property

SAMPLE

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