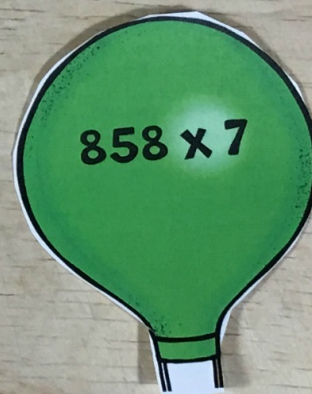
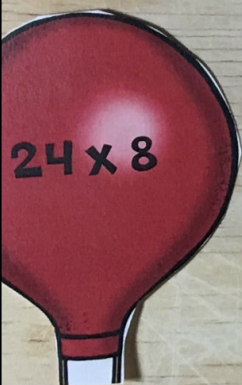
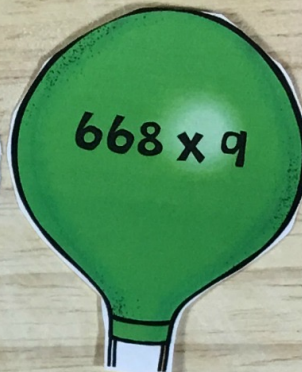
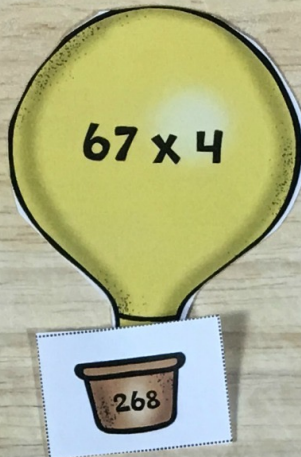
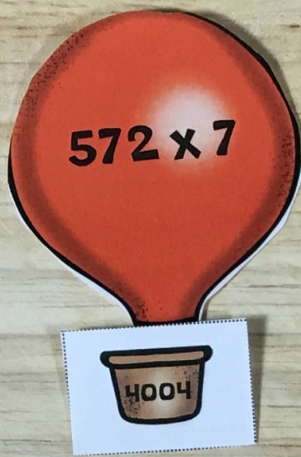
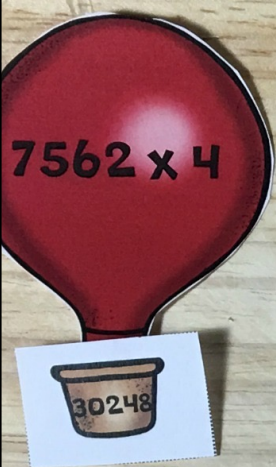


MATH WORKSHOP

MULTI-DIGIT MULTIPLICATION



PRINTABLE & DIGITAL



CCSS aligned vocabulary cards for use during the lessons, your word walls, and so much more. These are also included in the digital version so you can project them on your board.

Solve using any strategy. Show your work.

(1.) 482×7

(2.) 54×27

THE 3-STEP AREA MODEL FOR MULTIPLYING

Solve the following problems using basic multiplication symbols (using the symbols). The symbols are as followed:

\square = hundred \square = ten \square = one

1) $90 \times 4 =$ _____

2) $23 \times 30 =$ _____

Solve the following problems using the box model.

3) $85 \times 9 =$ _____

4) $43 \times 30 =$ _____

5) $12 \times 12 =$ _____

6) $12 \times 15 =$ _____

Solve using any strategy. Show your work.

7) $100 \times 2 =$ _____

8) $90 \times 10 =$ _____

PARTIAL PRODUCTS

A MULTIPLICATION STRATEGY

WHERE NUMBERS GO INTO FACTOR VALUES

CALCULATING PRODUCTS

PARTIAL PRODUCTS

THEN ADDED GET THE

STRATEGY

BOX MODEL

RO

1823

10000	8000	500	20
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ROUNDING

A STRATEGY TO FIND
ABOUT HOW
HOW EXACTLY
CLOSE
HUNDRETHS

EQUATION

A MATH SENTENCE WITH AN EQUAL SIGN THAT HAS THE SAME VALUE ON BOTH SIDES

$$5 \times 4 = 20$$

Pre-tests and Post-tests are provided so that you can determine what your students know and don't know. This also helps determine growth after the unit is complete.

A suggested unit overview and pacing is provided, though it's not necessary to follow it. This is to help make planning easy on you. It is also set up so you can just click on the lesson and it'll take you directly to it.

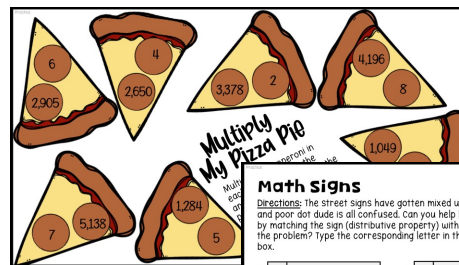
Unit Overview				
Click on the box to go directly to that lesson. Click here to access the full unit in digital form.				
Lesson 1 What is the area model method? How do we use it? (1-digit by 1-digit numbers)	Lesson 2 What is the box method? How do we use it? (1 to 2-digit numbers)	Lesson 3 How can the distributive property help us when multiplying?	Lesson 4 How can the distributive property help us when multiplying?	Lesson 5 What is the partial products method? How do we use it? (1 to 2-digit numbers by 1-digit)
pg. 18	pg. 24	pg. 19	pg. 52	pg. 63
Lesson 6 What is the partial products method and how do we use it? (2 to 4-digit numbers by 1-digit)	Lesson 7 Which strategy works best for when multiplying 2 to 4-digit numbers?	Lesson 8 How can I estimate when multiplying?	Lesson 9 How can I multiply 2-digit numbers by 2-digit numbers using the area model?	Lesson 10 How can I multiply 2-digit numbers by 2-digit numbers using the box model?
p. 75	pg. 85	pg. 43	pg. 104	pg. 118
Lesson 11 How can I multiply 2-digit numbers by 2-digit numbers using the box model?	Lesson 12 How can I multiply a 2-digit number by a 2-digit number using partial products?	Lesson 13 How can I multiply a 2-digit number by a 2-digit number using partial products?	Lesson 14 Which strategy works best for multiplying 2-digit numbers by 2-digit numbers?	Lesson 15 How can I show what I know? (Unit Review)
pg. 181	pg. 138	pg. 147	pg. 104	pg. 163
Pre-test pg. 11-15		Post-test pg. 187-188		

Detailed and thorough lesson plans to help you work through the workshop model. It includes the "I Can" statement, CCSS, vocabulary, materials used, intervention ideas, and extensions.

[illegible]

DIGITAL VERSION

This unit includes a digital version. You can assign parts of the resource to your students whether you are at school or distance learning.



Math signs

Directions: The street signs have gotten mixed up and poor dot dude is all confused. Can you help him by matching the sign (distributive property) with the problem? Type the corresponding letter in the box.

1	467 X 9	6	302 X 5
2	532 X 4	7	8 X 996
3	875 X 6	8	211 X 7
4	3 X 927	9	696 X 5
5	7 X 515	10	8 X 977

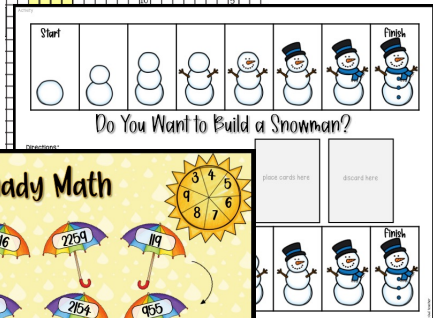
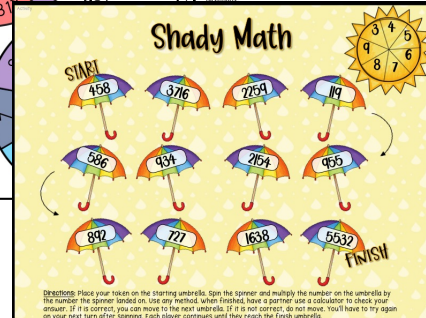
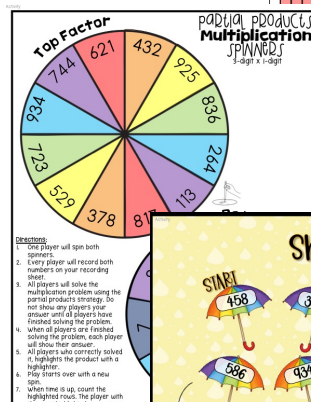
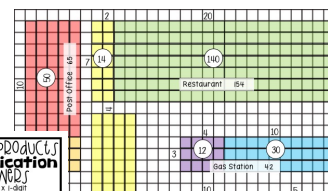
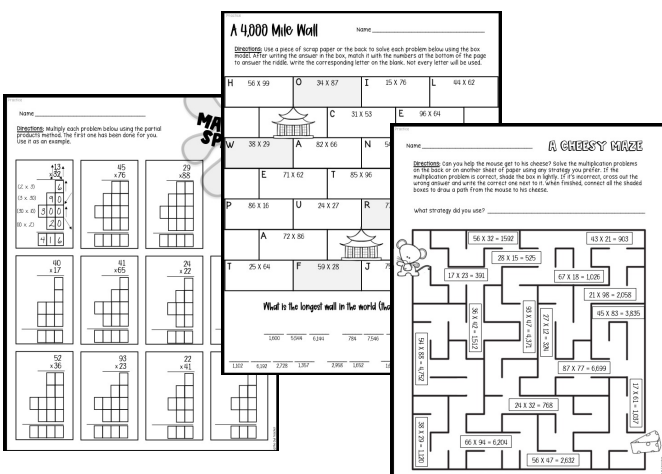
A	$(500 \times 4) + (30 \times 4) + (2 \times 4)$
B	$(500 \times 7) + (10 \times 7) + (8 \times 7)$
C	$(200 \times 7) + (10 \times 7) + (1 \times 7)$
D	$(300 \times 5) + (2 \times 5)$
E	$(600 \times 5) + (30 \times 5) + (6 \times 5)$
F	$(400 \times 9) + (50 \times 9) + (7 \times 9)$
G	$(600 \times 8) + (70 \times 8) + (7 \times 8)$
H	$(900 \times 3) + (20 \times 3) + (7 \times 3)$
I	$(900 \times 8) + (70 \times 8) + (6 \times 8)$
J	$(800 \times 6) + (70 \times 6) + (5 \times 6)$

ANCHOR CHARTS

Detailed anchor charts that break things down for your students to help them understand important concepts.

ACTIVITIES

Hands-on, concrete activities that use manipulatives. Activities are created based on research and best practices. Students are engaged and enjoy math more.



PRACTICE WORKSHEETS

Worksheets are provided to give students a chance to practice the newly learned skills and to work their way to mastery. This also provides you the opportunity to check for understanding. Answer keys are included.

INCLUDES COLOR AND B/W VERSIONS!