

MAKER MATH

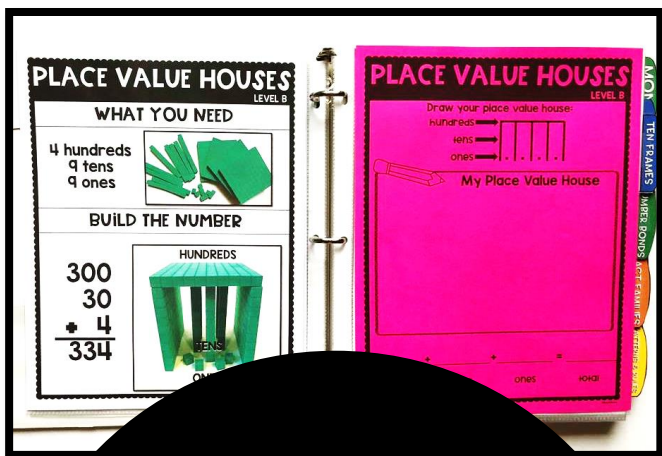
hands-on MATH BUNDLE



K-2ND GRADE

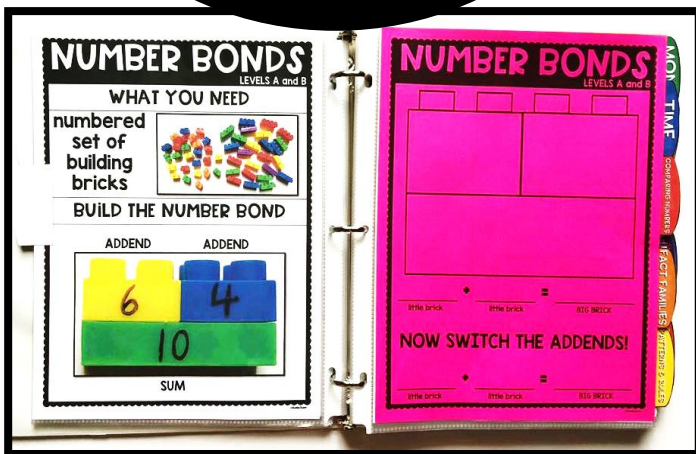
3RD-5TH GRADE

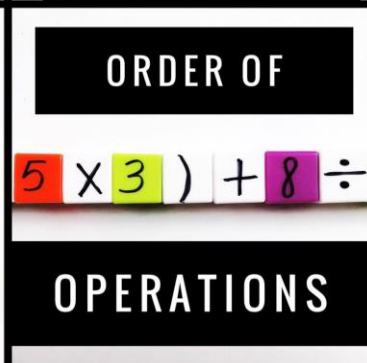
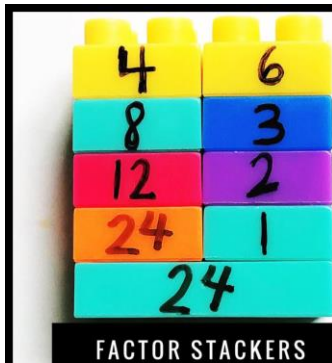
CREATED BY BROOKE BROWN



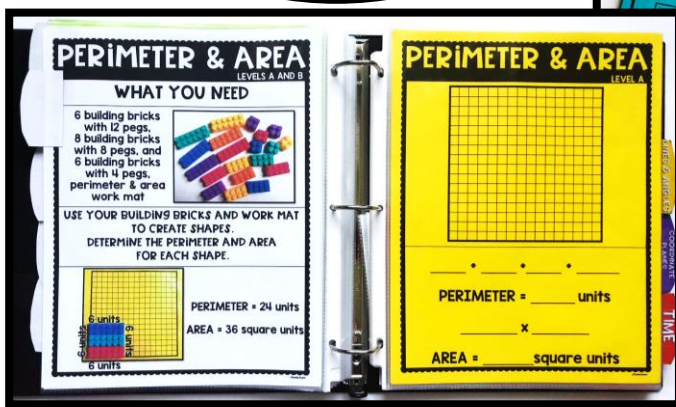
PERFECT FOR:

- MATH CENTERS
- SMALL GROUPS
- INTERVENTIONS
- TUTORING





PERFECT FOR:
-MATH CENTERS
-SMALL GROUPS
-INTERVENTIONS
-TUTORING



DOUBLE TEN FRAMES

LEVEL B

TEN FRAMES

LEVEL A

WHAT YOU NEED

ten frame and 10 snap cubes

BUILD THE NUMBER

TEN FRAME

7 + 3 = 10

WHAT YOU NEED

4 hundreds, 4 tens, 4 ones

BUILD THE NUMBER

300 + 4 = 304

WHAT YOU NEED

24 snap cubes, work mat

BUILD TOWERS OF THE THEN FIND THE

WHAT YOU NEED

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PLACE VALUE FENCES

LEVEL A

FACT FAMILIES

LEVELS A and B

WHAT YOU NEED

numbered set of mini cups

BUILD A PYRAMID TO SHOW THE FACT FAMILY.

9 + 8 = 17

8 + 9 = 17

17 - 9 = 8

17 - 8 = 9

WHAT YOU NEED

4 hundreds, 4 tens, 4 ones

BUILD THE NUMBER

300 + 4 = 304

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SHAPES

LEVEL A

WHAT YOU NEED

geoboard and 6 rubber bands

USE YOUR GEOBOARD AND RUBBER BANDS TO MAKE TWO-DIMENSIONAL SHAPES.

WHAT YOU NEED

2 yellow hexagons, 4 red trapezoids, 6 blue rhombuses, 8 green triangles

USE YOUR PATTERN BLOCKS TO SHOW FRACTIONAL PARTS.

FRACTIONS

FRACTIONS

WHAT YOU NEED

Playdough and 18 toothpicks

USE YOUR PLAYDOUGH AND TOOTHPICKS TO MAKE THREE-DIMENSIONAL SOLIDS.

WHAT YOU NEED

24 snap cubes, work mat

BUILD TOWERS OF THE THEN FIND THE

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LEVELS A and B

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SOLIDS

LEVEL B

WHAT YOU NEED

Playdough and 18 toothpicks

USE YOUR PLAYDOUGH AND TOOTHPICKS TO MAKE THREE-DIMENSIONAL SOLIDS.

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WHAT YOU NEED

24 snap cubes, work mat

15 K-2ND GRADE SKILLS WITH TWO DIFFERENTIATED LEVELS FOR EACH

EQUAL GROUPS

LEVELS A and B

WHAT YOU NEED

50 pennies and 10 pipe cleaner rings

USE THE PIPE CLEANER RINGS TO MAKE GROUPS. SORT YOUR PENNIES INTO EQUAL GROUPS. ADD OR MULTIPLY THE PENNIES IN EACH GROUP TO FIND THE TOTAL.

3 groups of 4 pennies

3 x 4 = 12

4 x 3 = 12

TWO-DIGIT ADDITION

LEVEL A

WHAT YOU NEED

18 green (ones) beads, 18 yellow (tens) beads, and 4 red (hundreds) beads on pipe cleaners and attached to place value mat. SUBTRACTION work mat

USE THE BEADS AND PLACE VALUE MAT TO MAKE THE FIRST THREE-DIGIT NUMBER.

CHECK THE ONES PLACE FIRST. IF THE ONES PLACE HAS MORE IN THE BOTTOM NUMBER, TAKE AWAY 1 YELLOW TENS BEAD AND ADD 10 GREEN BEADS.

IF THERE ARE 0 TENS, REPEAT THE SAME STEPS WITH THE HUNDREDS PLACE. IF THE TENS PLACE HAS MORE IN THE BOTTOM NUMBER, ADD 10 TENS (YELLOW BEADS) AND TAKE AWAY ONE HUNDRED (RED BEAD).

NOW SUBTRACT THE BOTTOM NUMBER OF BEADS TO FIND THE DIFFERENCE.

659 - 427 = 232

TWO-DIGIT ADDITION

LEVEL B

WHAT YOU NEED

18 green (ones) beads, 18 yellow (tens) beads, and 4 red (hundreds) beads on pipe cleaners and attached to place value mat. ADDITION work mat

USE THE BEADS AND PLACE VALUE MAT TO MAKE THREE-DIGIT NUMBERS.

IF THE ONES PLACE HAS 10 OR MORE GREEN BEADS, TRADE FOR 1 YELLOW TENS BEAD.

IF THE TENS PLACE HAS 10 OR MORE YELLOW BEADS, TRADE FOR 1 RED HUNDREDS BEAD.

ADD THE TOTAL NUMBER OF BEADS TO FIND THE SUM.

124 + 375 = 499

MEASUREMENT

LEVEL A

WHAT YOU NEED

20 snap cubes

MEASURE THE LENGTHS AND HEIGHTS OF OBJECTS AND LINES WITH YOUR SNAP CUBES.

WHAT YOU NEED

24 snap cubes, work mat

BUILD TOWERS OF THE THEN FIND THE

WHAT YOU NEED

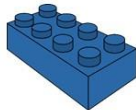
24 snap cubes, work mat

BUILD YOUR UNDERSTANDING

1 THINK



2 BUILD



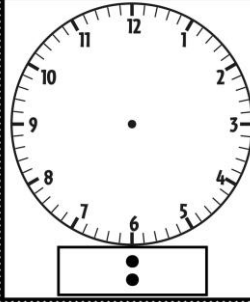
3 SOLVE AND EXPLAIN



DIFFERENTIATED ORGANIZERS

TELLING TIME

LEVELS A and B



NUMBER STORY TOWERS

LEVELS A and B

TOWER 1 + TOWER 2 = SUM

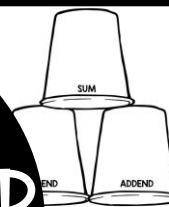
+ =

TOWER 1 - TOWER 2 = DIFFERENCE

- =

FACT FAMILIES

LEVEL A

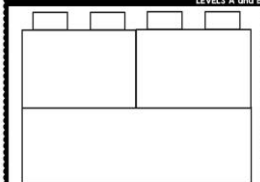


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=

NUMBER BONDS

LEVELS A and B



Write brick

Write brick

Big brick

NOW SWITCH THE ADDENDS!

Write brick

Write brick

Big brick

PLACE VALUE FENCES

LEVEL A

Draw your place value fence:



PLACE VALUE HOUSES

LEVEL B

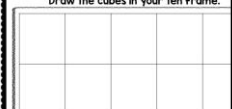
Draw your place value house:



My Place Value House

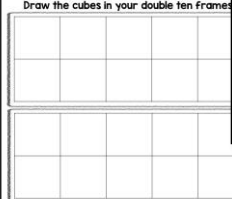
TEN FRAMES

Draw the cubes in your ten frame.



DOUBLE TEN FRAME

Draw the cubes in your double ten frame.



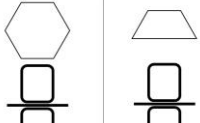
Write the number:

Is this number ODD or EVEN?

First frame Second frame TOTAL

FRACTIONS

LEVEL B



FRACTION

MEASUREMENT

LEVEL A

What did you measure? What did you measure?

cubes

cubes

What did you measure? What did you measure?

cubes

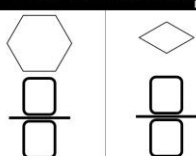
cubes

SOLIDS

This is a

FRACTIONS

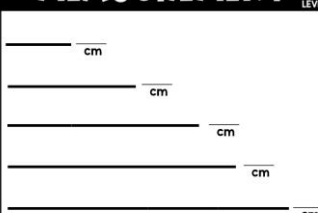
LEVEL



FRACTIONAL PARTS OF A GROUP

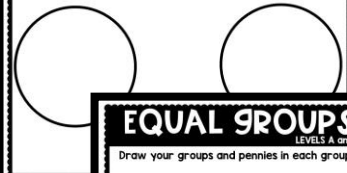
MEASUREMENT

LEVEL



COMPARING NUMBERS

LEVELS A and B



How many groups?

How many in each group?

x =

x =

LEVEL A **LINE & ANGLES**

WHAT YOU NEED

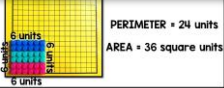
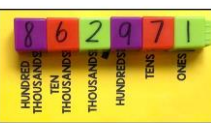
PLACE VALUE

WHAT YOU NEED

18 number cubes



BUILD THE NUMBER, WRITE IN EXPANDED FORM, AND ROUND TO SPECIFIC PLACES.



LEVEL B **PLACE VALUE**

WHAT YOU NEED

18 number cubes



2-DIGIT ADDITION

WHAT YOU NEED

ten (ones) beads, ten (tens) beads, ten (hundreds) beads, and ten (thousands) beads. Use place value mat. Write work mat.

THE BEADS AND PLACE VALUE MAT TO MAKE THREE-DIGIT NUMBERS.

3-DIGIT ADDITION

WHAT YOU NEED

ten (ones) beads, ten (tens) beads, ten (hundreds) beads, and ten (thousands) beads. Use place value mat. Write work mat.

THE BEADS AND PLACE VALUE MAT TO MAKE THREE-DIGIT NUMBERS.

ANGLES

WHAT YOU NEED

ten (ones) beads, ten (tens) beads, ten (hundreds) beads, and ten (thousands) beads. Use place value mat. Write work mat.

THE BEADS AND PLACE VALUE MAT TO MAKE THREE-DIGIT NUMBERS.

FACTOR STACKERS

WHAT YOU NEED

numbered set of building bricks with 4 pegs. 7 blank bricks with 4 pegs. 1 blank brick with 8 pegs. ultra fine tip dry erase marker.

WRITE THE PRODUCT ON THE BLANK BRICK ON THE BOTTOM. BUILD ALL THE POSSIBLE FACTORS ON TOP.



PRODUCT

MULTIDIGIT DIVISION

WHAT YOU NEED

plastic cubes: 10 green (ones), 10 yellow (tens), 10 red (hundreds), dry erase marker, work mats, clothespin.



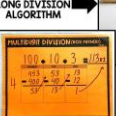
MULTIDIGIT DIVISION

WHAT YOU NEED

algorithm work mat, long division steps chart, and clothespin, dry erase marker.

USE THE WORK MAT TO PROBLEMS WITH TWO

TRADITIONAL LONG DIVISION ALGORITHM



MULTIDIGIT DIVISION

WHAT YOU NEED

plastic cubes: 10 green (ones), 10 yellow (tens), 10 red (hundreds), dry erase marker, work mats, clothespin.

USE YOUR CUBES TO BUILD GROUPS OF TOWERS TO SOLVE MULTIDIGIT DIVISION PROBLEMS.

Divide tens into equal groups and write the values on the cubes.

Divide ones into equal groups and write the values on the cubes.



MULTIDIGIT MULTIPLICATION

WHAT YOU NEED

blank plastic cubes: 3 green (ones), 3 yellow (tens), 3 red (hundreds), 1 blue (thousands), dry erase marker.

USE YOUR CUBES TO BUILD TOWERS AND SOLVE MULTIDIGIT MULTIPLICATION PROBLEMS.

1) Set up the problem and write the place values.

2) Multiply tens and ones. Make a tower and write values on the cubes to show the product.

3) Multiply ones and ones. Make a tower and write values on the cubes to show the product.

4) Combine towers and add all values together for the final product.



ORDER OF OPERATIONS

WHAT YOU NEED

18 number cubes, 4 parentheses cubes, 4 operations cubes.

BUILD AND SOLVE THE PROBLEM ACCORDING TO THE ORDER OF OPERATIONS.



TELLING TIME

WHAT YOU NEED

1 long straw, 1 short straw, 1 pipe cleaner connector, and clock mat.

USE YOUR STRAWS TO SHOW THE TIME. WRITE THE DIGITAL TIME.



ELAPSED TIME

WHAT YOU NEED

1 long straw, 1 short straw, 1 pipe cleaner connector, and clock mat.

USE YOUR STRAWS TO SHOW THE TIME. USE THE STRAWS AND NUMBER LINE TO DETERMINE ELAPSED TIME.

SHAPE

WHAT YOU NEED

geoboard and rubber bands, per rulers.

USE YOUR GEOBOARD AND RUBBER BANDS TO MAKE TWO-DIMENSIONAL SHAPES.

USE YOUR STRAWS TO SHOW THE TIME. WRITE THE DIGITAL TIME.



DECIMALS

WHAT YOU NEED

four 4" paper cubes, Base Ten Blocks: 5 flats, 10 rods, 10 units.



DECIMALS

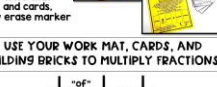
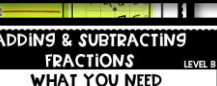
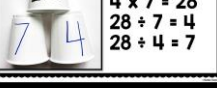
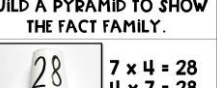
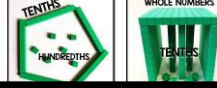
WHAT YOU NEED

Base Ten Blocks: 5 flats, 10 rods, 10 units.



USE YOUR WORK MAT AND BASE TEN BLOCKS TO BUILD AND WRITE DECIMALS.

DECIMAL FENCES: DECIMAL HOUSES: TENTHS TENTHS



20
3RD-5TH GRADE
SKILLS WITH
TWO-THREE
DIFFERENTIATED
LEVELS FOR
EACH

COORDINATE PLANES

WHAT YOU NEED

geoboard and rubber bands, per rulers.

USE YOUR GEOBOARD AND RUBBER BANDS TO MAKE TWO-DIMENSIONAL SHAPES.



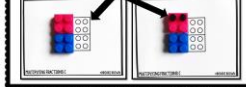
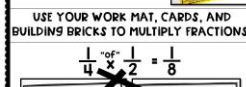
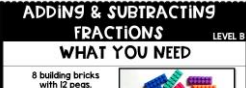
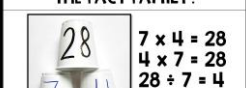
FACT FAMILIES

WHAT YOU NEED

numbered set of mini cups, 1 blank mini cup, 1 dry erase marker.



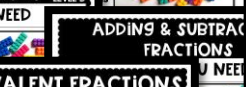
BUILD A PYRAMID TO SHOW THE FACT FAMILY.



FRACTIONS

WHAT YOU NEED

8 building bricks with 12 pegs, 10 building bricks with 8 pegs, 24 building bricks with 4 pegs, Level C fractions work mats.



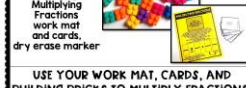
ADDING & SUBTRACTING FRACTIONS

WHAT YOU NEED

8 building bricks with 12 pegs, 10 building bricks with 8 pegs, 24 building bricks with 4 pegs, Common Denominator work mat, Adding & Subtracting Fractions work mats.



USE YOUR WORK MATS AND BUILDING BRICKS.



EQUIVALENT FRACTIONS

WHAT YOU NEED

8 building bricks with 12 pegs, 10 building bricks with 8 pegs, 24 building bricks with 4 pegs, Level C fractions work mats.



USE YOUR BUILDING BRICKS TO MAKE AND WRITE EQUIVALENT FRACTIONS.



MULTIPLYING FRACTIONS

WHAT YOU NEED

24 building bricks with 4 pegs, Multiplying Fractions work mat and cards, dry erase marker.



USE YOUR WORK MAT, CARDS, AND BUILDING BRICKS TO MULTIPLY FRACTIONS.



DIFFERENTIATED ORGANIZERS

PLACE VALUE

LEVEL C



PLACE VALUE

LEVEL

PLACE VALUE

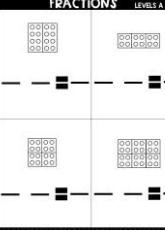
LEVEL A



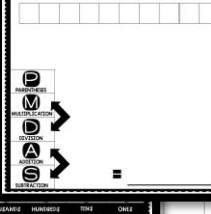
EQUIVALENT FRACTIONS

ADDING & SUBTRACTING FRACTIONS

LEVELS A AND B

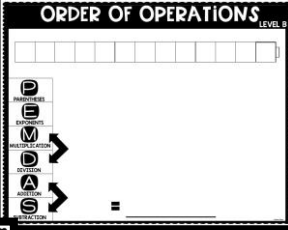


ORDER OF OPERATIONS



ORDER OF OPERATIONS

LEVEL B



TAPE OR VELCRO THESE LABELS TO THE INSIDE OF THE BOX LIDS.

BUILD YOUR UNDERSTANDING

- 1 THINK
- 2 BUILD
- 3 SOLVE AND EXPLAIN

SHAPES

This is a

MULTIPLYING FRACTIONS

LEVEL C

PLACE FRACTION CARD HERE AND BUILD THE SECOND FRACTION WITH BECKS.

1) USE ONLY 4 BECK SQUARE BECKS TO BUILD THE REPRESENTATION SHOWN ON THE TASK CARD.

2) USE THE DRY ERASE MARKER TO COLOR THE TOP OF THE FIRST REPRESENTATION THE FIRST FRACTION. TO THE FINAL NUMERATOR.

3) THE TOTAL NUMBER OF BECKS ON THE CARD IS THE DENOMINATOR.

4) SIMPLIFY THE PRODUCT IF NECESSARY.

YOU CAN ALSO MULTIPLY THE NUMERATORS AND DENOMINATORS STRAIGHT AHEAD.

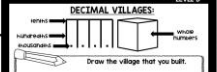
DECIMALS

LEVEL A



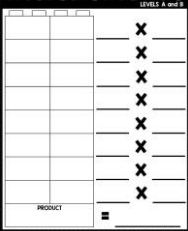
DECIMALS

LEVEL B



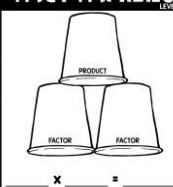
FACTOR STACKERS

AREA = _____ square units



FACT FAMILIES

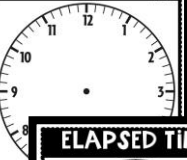
LEVEL A



DIFFERENTIATED ORGANIZERS

TELLING TIME

LEVEL A



ELAPSED TIME



SOLIDS

LEVEL B

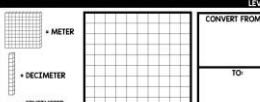
This is a

HOW MANY? PROPERTIES

- faces
- edges
- vertices

MEASUREMENT CONVERSIONS

LEVEL A



MEASUREMENT CONVERSIONS

LEVEL B



ANGLES

LEVEL B

What type of lines or angle did you make?

What type of angle did you make?

This angle measures _____°

COUNTING MONEY

LEVEL A



HUNDREDS CHART

Draw Xs to show the pattern.



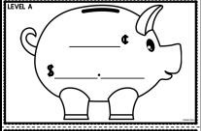
MAKING CHANGE

LEVEL B

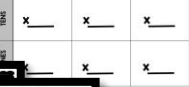
TOTAL AMOUNT PAID

CHANGE DUE

COST OF PURCHASE

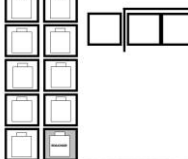


MULTIPLYING FRACTIONS



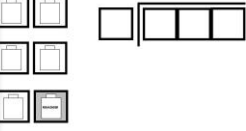
MULTIDIGIT DIVISION (DIVISORS UP TO 5)

LEVEL A



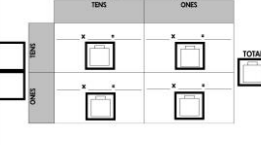
MULTIDIGIT DIVISION (DIVISORS UP TO 5)

LEVEL B



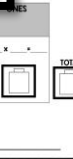
MULTIDIGIT MULTIPLICATION (2 BY 2)

LEVEL A



MULTIPLYING FRACTIONS

LEVEL B



MULTIPLYING FRACTIONS

LEVEL A

