TH GRADE PRIORITY MATH GOALS

Building Number Sense!

I CAN & DIVINE

CAN ULTIPLY

2 X 4 5 X 70 8 X 9

I CAN MULTIPLY

1-DIGIT BY 2-DIGIT NUMBERS

(I can illustrate and explain the calculation by using equations, rectangular arrays and/or area models.)



2 X 12

I can multiply

1-DIGIT BY 3-DIGIT NUMBERS

(I can illustrate and explain the calculation by using equations, rectangular arrays and/or area models.)



I CAN MULTIPLY

l-digit By 4-digit NUMBERS

I can illustrate and explain the calculation by using equations. rectangular arrays and/or area models. **5 🗶 26**78

I CAN MULTIPLY

2-DIGIT BY 2-

I can illustrate and explain the calculation by using equations, rectangular arrays and/or area models.

12 x

I can find all

FACTOR PAIR

OF A WHOLE NUMBER IN THE RANGE NF 1-100









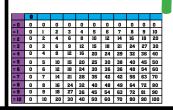
I know if

A NUMBER IS PRIME

or composite

5 is Prime 12 is composite

can divide within



can divide

2-digit by 1-digit numbers

I can illustrate and explain the calculation by using equations, rectangular arrays and/or area models. 78 ÷ 5

10 ÷ 5

50

Remainder of 3 78 = 15 x 5 + 3

I CAN DIVIDE

3-DIGIT BY 1-DIGIT NUMBERS. I can illustrate and explain the calculation by using equations, rectangular arrays and/or area models.

+ 5 + 110

Remainder of 7

 $135 = 16 \times 8 + 7$

I can illustrate and explain the calculation by using equations. rectangular arrays and/or area models

1570/2

750 + 35

785

I CAN SOLVE DIVISION PROBLEMS

WITH REMAINDERS

43 ÷ 7

MULTIPLY WITHIN

2 X 4 5 X TO 8 X 9

I CAN MULTIPLY 1-DIGIT BY 2-DIGIT NUMBERS

(I can illustrate and explain the calculation by using equations, rectangular arrays and/or area models.)



2 × 12

I CAN MULTIPLY **1-DIGIT BY**

3-DIGIT NUMBERS

(I can illustrate and explain the calculation by using equations, rectangular arrays and/or area models.)



I CAN MULTIPLY

1-digit By 4-digit

NUMBERS

I can illustrate and explain the calculation by using equations, rectangular arrays and/or area models.

5 X 2678

I CAN MULTIPLY 2-DIGIT BY 2-DIGIT

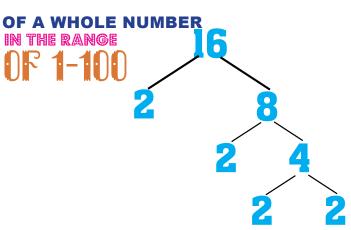
NUMBERS

I can illustrate and explain the calculation by using equations, rectangular arrays and/or area models

12 x 12

I can find all

FACTOR PAIRS



I KNOW MULTIPLES

2





8

I know if A NUMBER IS PRIME

or composite

5 is Prime 12 is composite

Ican divide

	0	1	2								
= 0	0	0	0	0	0	0	0	0	0	0	0
= 1	0	1	2	3	4	5	6	7	8	9	10
= 2	0	2	4	6	8	10	12	14	16	18	20
= 3	0	3	6	9	12	15	18	21	24	27	30
= 4	0	4	8	12	16	20	24	29	32	36	40
= 5	0	5	10	15	20	25	30	38	40	45	50
= 6	0	6	12	18	24	30	36	36	48	54	60
= 7	0	7	14	21	28	35	42	42	56	63	70
= 8	0	8	16	24	32	40	48	49	64	72	80
= 9	0	9	18	27	36	45	54	63	72	81	90
= 10	0	10	20	30	40	50	60	70	80	90	100

I can divide

2-digit by 1-digit numbers

I can illustrate and explain the calculation by using equations, rectangular arrays and/or area models.

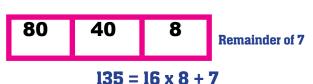
Remainder of 3 78 = 15 x 5 + 3

I CAN DIVIDE

3-DIGIT BY 1-DIGIT NUMBERS.

I can illustrate and explain the calculation by using equations, rectangular arrays and/or area models.

$$10 + 5 + 1$$



I CAN DIVIDE

4-DIGIT BY 1-DIGIT NUMBERS.

I can illustrate and explain the calculation by using equations, rectangular arrays and/or area models

1570/2 750 + 35

1500 70

785

PROBHAMS

I CAN SOLVE 2 STEP WORD PROBLEMS

LUKE HAD 17 MARBLES
HIS BROTHER HAD
2 TIMES AS MANY.

HOW MANY DID THEY
HAVE ALTOGETHER?

I CAN SOLVE MULTI-STEP WORD PROBLEMS

MARIA HAD 3 RINGS. Her sister HAD 4 TIMES

as many as she did. Her sister then qave her 2.

How many does Maria have now?

How many does her sister have now?

How many do they have altogether?

3+2=5 12-2=10 5+10=15

I CAN SOLVE BASIC MULTIPLICATION WORD PROBLEMS

THERE WERE 12 ROWS

OF APPLE TREES

THERE WERE 11

IN EACH ROW.

HOW MANY APPLE TREES WERE THERE.

12 × 10 = 120

I CAN SOLVE BASIC DIVISION WORD PROBLEMS

JAMAL HAD 10 RINGS.

He shared them with his brother.

They now have the same amount.

WRITE AN EQUATION FOR THIS PROBLEM

 $10 \div 2 = 5$

I CAN SOLVE THE 3 TYPES OF MULTIPLICATIVE COMPARISON WORD PROBLEMS

SUE HAS 9

BRACELETS

SHE HAS 3 TIMES AS MANY AS HER SISTER HAVE?

 $9 \div 3 = 3$

I CAN INTERPRET THE REMAINDER.

HONG HAD 14 TOYS

HE SHARED THEM BETWEEN HIS 2 FRIENDS AND HIMSELF.

How many did each person get?









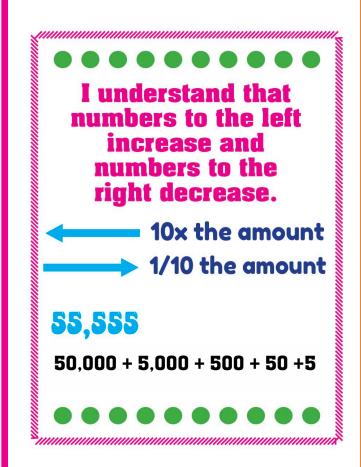
I CAN GENERATE A NUMBER PATTERN THAT FOLLOWS A GIVEN RULE.

Make a pattern THAT SHOWS A NUMBER BEING MULTIPLIED BY 5.

5, 10, 15, 20, 25, 30, 35, 40, 45, 50...

UNDERSTAND PLACE VALUE

4,251 = 4000 + 200 + 50 + 1Four thousand two hundred fifty one





I CAN TALK ABOUT
NUMBERS IN EXPANDED
FORM, STANDARD FORM
AND WORD FORM.

2570 = 2000 + 500 + 70 + 0

TWO THOUSAND FIVE HUNDRED SEVENTY

I CAN COMPARE
NUMBERS USING
>, =, AND < SYMBOLS

2345 > 1236

I can round NUMBERS TO ANY PLACE.

I CAN ADD MULTI-DIGIT NUMBERS

2567 rounds to 3000

2578+8907

I CAN
SUBTRACT
MULTI-DIGIT
NUMBERS.
2000 - 99

UNDERSTAND FRACTIONS

I CAN DECOMPOSE A FRACTION
IN MORE THAN ONE WAY

I CAN JUSTIFY DECOMPOSITIONS
BY USING A VISUAL FRACTION
MODEL.

$$\frac{5}{10} = \frac{2}{10} + \frac{3}{10}$$

I CAN RECOGNIZE AND GENERATE EQUIVALENT FRACTIONS.

$$\frac{2}{4} = \frac{4}{8}$$

I CAN COMPARE FRACTIONS WITH DIFFERENT NUMERATORS AND DIFFERENT DENOMINATORS.

I CAN RECORD THE RESULT OF COMPARISONS WITH SYMBOLS

>, =, or <, and justify the conclusions e.g., by using a visual fraction model.

$$\frac{1}{3}$$
 > $\frac{1}{6}$

$$\begin{array}{c|c} \frac{1}{3} \\ \hline \frac{1}{6} & \frac{1}{6} \end{array}$$

I CAN ADD MIXED NUMBERS WITH LIKE DENOMINATORS

$$1\frac{1}{3} + \frac{2}{3}$$

I CAN SUBTRACT NUMBERS WITH LIKE DENOMINATORS

$$2\frac{4}{5} - \frac{1}{5}$$

I CAN ADD FRACTIONS WITH LIKE DENOMINATORS

$$\frac{1}{10} + \frac{3}{10}$$

I CAN SUBTRACT FRACTIONS
WITH LIKE DENOMINATORS

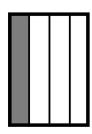
$$\frac{5}{10} - \frac{4}{10}$$

I can solve addition fraction word problems by using visual fraction models and equations to represent the problem.

RAUL RAN 2/10 OF A MILE IN THE MORNING AND 5/10 OF A MILE IN THE AFTERNOON.

PROBLEMS BY USING VISUAL FRACTION MODELS AND EQUATIONS TO REPRESENT THE PROBLEM

GRANDMA MADE A CAKE. THE KIDS
ATE 1/4 OF IT.
HOW MUCH IS LEFT?



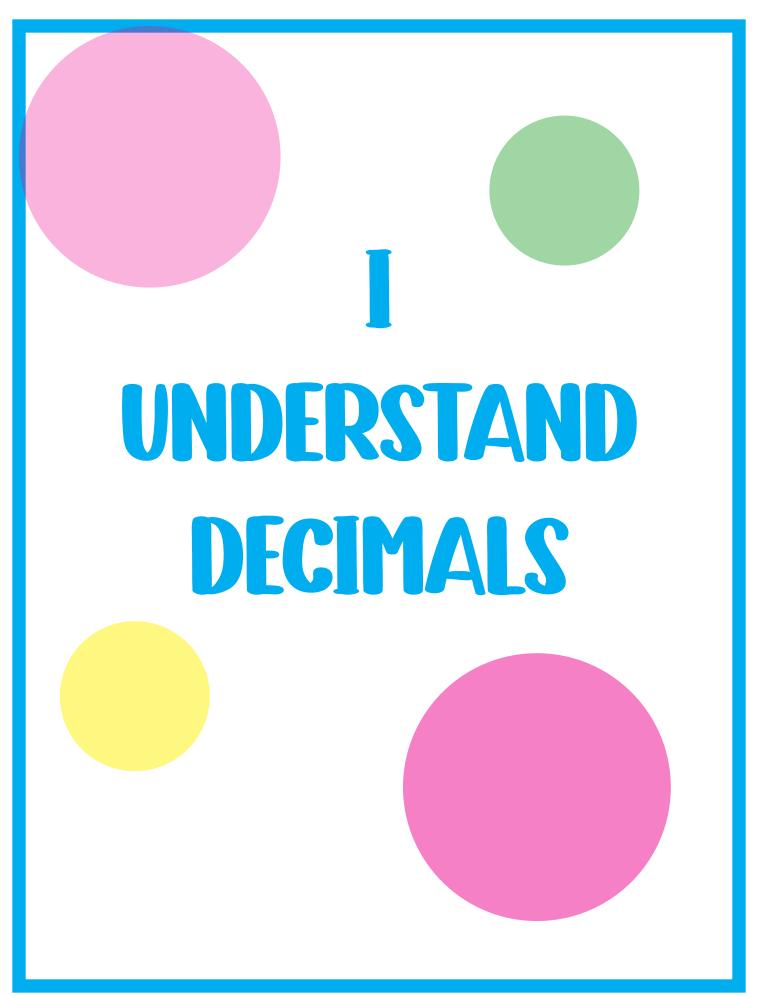
I CAN MULTIPLY
A FRACTION BY A
WHOLE NUMBER.

4 $X = \frac{1}{4}$

I CAN SOLVE WORD PROBLEMS INVOLVING
MULTIPLICATION OF A FRACTION BY A
WHOLE NUMBER BY USING VISUAL
FRACTION MODELS AND EQUATIONS TO
REPRESENT THE PROBLEM

MARY RAN 1/4 OF A MILE FOR 3 DAYS. HOW FAR DID SHE RUN?

$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$$



I can express a fraction with a denominator 10 as an equivalent fraction with a denominator of 100. I can add two fractions with denominators of 100

$$\frac{2}{10} = \frac{20}{100}$$

I can use decimal notation for fractions with denominators 10 or 100.

$$.10 = \frac{1}{10}$$

I can compare 2 decimals to hundredths by reasoning about their size.





CAN MULTIPLY WITHIN 100

2 X 4

5 X 10

8 X 9



GREAT MATH WORK,



CAN MULTIPLY I-DIGIT BY 2-DIGIT NUMBERS

2 X 12





CAN MULTIPLY I-DIGIT BY 3-DIGIT NUMBERS





GREAT MATH WORK,



CAN MULTIPLY I-DIGIT BY 4-DIGIT NUMBERS

5 X 2678





CAN MUTTIPTY 2-DIGIT BY 2-DIGIT NUMBERS

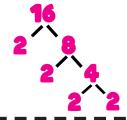
12 X 12



GREAT MATH WORK,



CAN FIND ALL FACTOR PAIRS OF A WHOLE NUMBER IN THE RANGE OF 1-100







KNOW MULTIPLES

2468



GREAT MATH WORK,



KNÖW IF A NUMBER IS PRIME ÖR CÖMPÖSITE

5 is Prime

12 is Composite





CAN DIVIDE WITHIN 100

	0										
= 0	0	0	0	0	0	0	0	0	0	0	0
= 1	0	1	2	3	4	5	6	7	8	9	10
= 2	0	2	4	6	8	10	12	14	16	18	20
= 3	0	3	6	9	12	15	18	21	24	27	30
= 4	0	4	8	12	16	20	24	29	32	36	40
= 5	0	5	10	15	20	25	30	38	40	45	50
= 6	0	6	12	18	24	30	36	36	48	54	60
= 7	0	7	14	21	28	35	42	42	56	63	70
= 8	0	8	16	24	32	40	48	49	64	72	80
= 9	0	9	18	27	36	45	54	63	72	81	90
= 10	0	10	20	30	40	50	60	70	80	90	100



GREAT MATH WORK,



CAN DIVIDE 2-DIGIT BY 1-DIGIT NUMBERS

78 ÷ 5

10 ÷ 5

50 | 2!

Remainder of 3

 $78 = 15 \times 5 + 3$



CAN DIVIDE 3-DIGIT BY 1-DIGIT NUMBERS

10 + 5 + 1

80 40 8 Re

Remainder of 7

135 ÷ 8

 $135 = 16 \times 8 + 7$





CAN SÖLVE 2 STEP PRÖBLEMS

O	Luke has 17 marbles his bröther had 2 times
0	as many. Höw many did they have altögether?
0	do Illano. Illano alla olla olla a alla oggania.
0	
0	



GREAT MATH WORK,



CAN SÖZVE MUZTI-STEP PRÖBZEMS

- Maria had 3 rings. Her sister had 4 times as
- omany as she did. Her sister then gave her 2.
- Höw many döcs Maria have nöw?
- j Höw many döes her sister have nöw?
- O How mamnydo they have altogether?

3+2=5 12-2=10

5 + 10 = 15





CAN SÖLVE BASIC MULTIPLICATION WORD PROBLEMS

- There were 12 rows of apple trees. There were
- Olo in each row. How many apples trees were

Othere?

12 × 10 = 120



GREAT MATH WORK,



CAN SÖLVE BASIC DIVISIÖN WÖRD PRÖBLEMS

- O Jamaz had 10 rings. He shared them With
- his bröther. They have now the same
- amöunt. Write an equation for this
- 5 Pröblem. $10 \div 2 = 5$





CAN SÖZVE 3 TYPES ÖF MUZTIPZICATIVE CÖMPARISÖN WÖRD PRÖBZEMS

- Sue has 9 brace Lets. Shae has 3 times as many as her sister. How many does her sister have?
 - $9 \div 3 = 3$



GREAT MATH WORK,



CAN INTERPRET THE REMAINDER

- Höng had 4 töys. He shared them with
- his 2 friends. How many did each person
- o get?





CAN GENERATE A NUMBER PATTERN THAT FÖLLÖWS A GIVEN RULE

5, 10, 15, 20, 25, 30, 35, 40, 45, 50...



GREAT MATH WORK,



UNDERSTANDS PLACE VALUE

4,251 = 4000 + 200 + 50 + 1

Four thousand two hundred fifty one





Understands that numbers to the Left increase and numbers to the right decrease.

10x the amount

55,555

50,000 + 5,000 + 500 + 50 +5



GREAT MATH WORK,



CAN USE PLACE VALUE WHEN COMPARING WHÖLE NUMBERS

2345 > **457**





CAN TAYK ABÖUT NUMBERS IN EXPANDED FÖRM, STANDARD FÖRM AND WÖRD FÖRM

2570 = 2000 + 500 + 70 + 0

TWÖ THÖUSAND FIVE HUNDRED SEVENTY



GREAT MATH WORK,



CAN COMPARE NUMBERS USING >, =, AND < SYMBOLS

2345 > 1236





CAN RÖUND NUMBERS TÖ THE HUNDRED THÖUSAND PYACE

2567 rounds to 3000



GREAT MATH WORK,



CAN ADD MULTI-DIGIT NUMBERS

2578 + 8907





CAN SUBTRACT MULTI-DIGIT NUMBERS







GREAT MATH WORK,



CAN UNDERSTAND FRACTIONS

$$\frac{1}{4}$$



$$\frac{2}{3}$$





CAN DECÖMPÖSE A FRACTIÖN IN MÖRE THAN ÖNE WAY

$$\frac{5}{10} = \frac{2}{10} + \frac{3}{10}$$



GREAT MATH WORK,



CAN RECÖGNIZE AND GENERATE EQUIVATENT FRACTIONS





CAN CÖMPARE FRACTIÖNS WITH DIFFERENT NUMERATÖRS AND DIFFERENT DENÖMINATÖRS

$$\frac{1}{3}$$
 > $\frac{1}{6}$



GREAT MATH WORK,



CAN RECORD THE RESULT OF COMPARISONS WITH SYMBOLS

 $\frac{2}{3}$ > $\frac{1}{6}$





CAN ADD MIXED NUMBERS WITH LIKE DENOMINATORS

$$\frac{1}{1}/3 + \frac{2}{3}$$

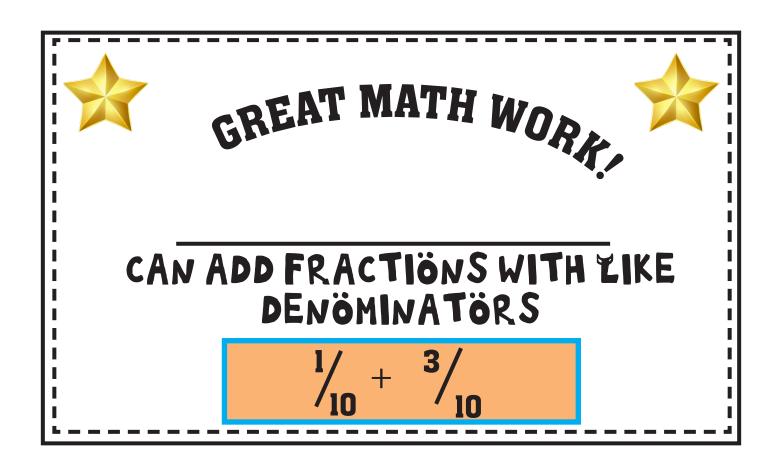


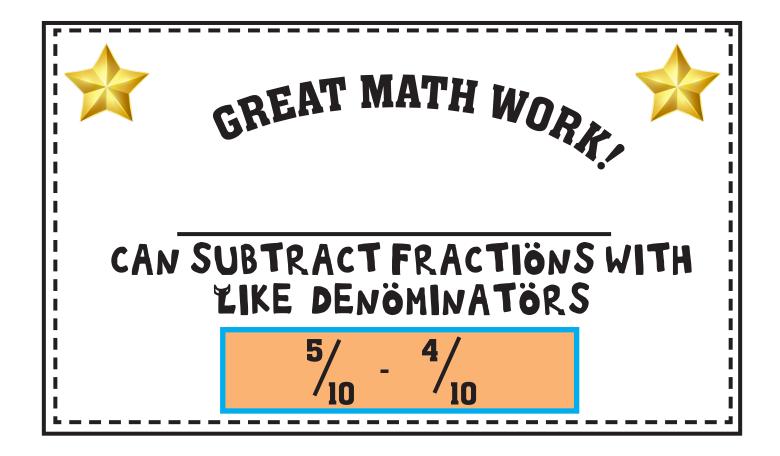
GREAT MATH WORK,



CAN SUBTRACT MIXED NUMBERS WITH LIKE DENOMINATORS

2/5 - 1/5

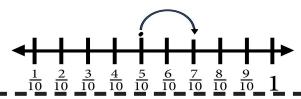








CAN SÖLVE ADDITIÖN FRACTIÖN WÖRD PRÖBLEMS BY USING VISUAL FRACTIÖN MÖDELS AND EQUATIONS TÖ REPRESENT THE PRÖBLEM

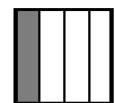




GREAT MATH WORK,



CAN SÖLVE SUBTRACTIÖN FRACTIÖN WÖRD PRÖBLEMS BY USING VISUAL FRACTIÖN MÖDELS AND EQUATIONS TÖ REPRESENT THE PRÖBLEM







CAN MULTIPLY A FRACTION BY A WHOLE NUMBER

$$4 \times \frac{1}{4}$$

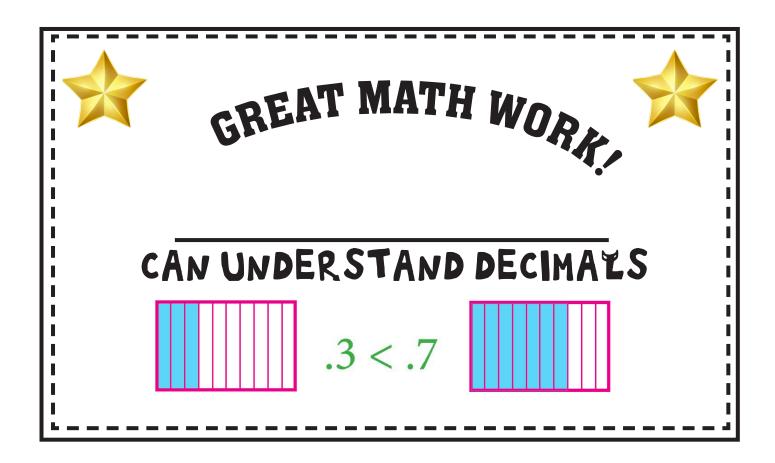


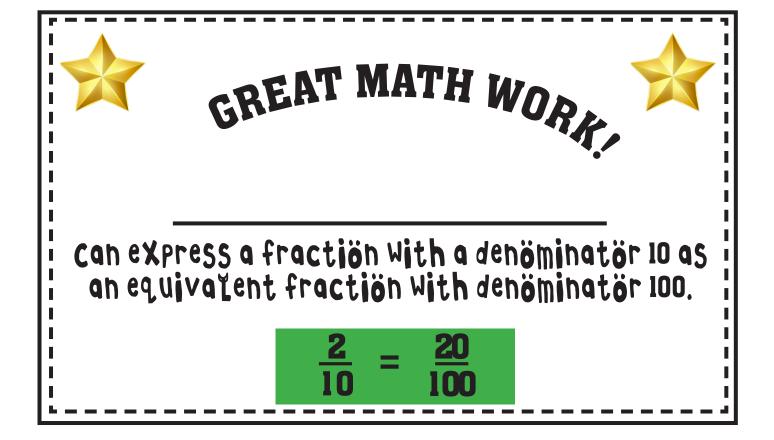
GREAT MATH WORK,



CAN SÖLVE WÖRD PRÖBLEM S INVÖLVING MULTIPLICATIÖN ÖF A FRACTIÖN BY A WHÖLE NUMBER USING MÖDELS AND EQUATIONS TÖ REPRESENT THE PRÖBLEM

$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$$





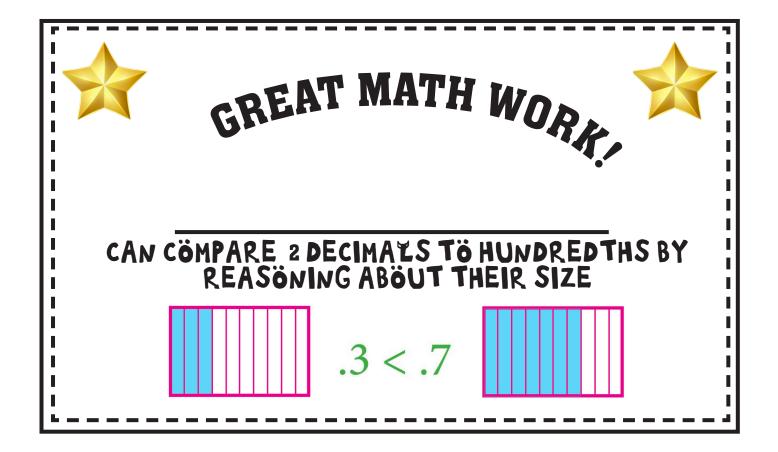


GREAT MATH WORK,



CAN USE DECIMAL NÖTATIÖN FÖR FRACTIÖNS WITH DENÖMINATÖRS 10 ÖR 100

$$.10 = \frac{1}{10}$$

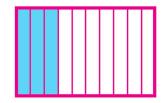




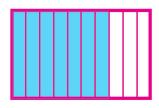
GREAT MATH WORK,



CAN RECÖGNIZE THE CÖMPARISÖNS ARE VAYID ÖNYY WHEN THE TWÖ DECIMAYS REFER TÖ THE SAME WHÖYE



.3 < .7





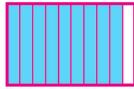
GREAT MATH WORK,



CAN RECORD THE RESULTS OF COMPARISONS WITH THE SYMBOLS >, =, OR <, AND JUSTIFYING THE CONCLUSIONS, E.G., BY USING A VISUAL MODEL



.5 < .9



ICAN MULTIPLY AND DIVIDE

I CAN MULTIPLY WITHIN 100

2 × 4 5 × 10 8 × 9

CAN MULTIPLY 1-01GIT BY 2-01GIT MUMBERS

I CAN ILLUSTRATE AND EXPLAIN THE CALCULATION BY USING EQUATIONS.

RECTANGULAR ARRAYS AND/OR AREA MODELS

2 % 12

I CAN MULTIPLY 1-DIGIT BY 3-DIGIT

NUMBERS

I CAN ILLUSTRATE AND EXPLAIN THE CALCULATION BY USING EQUATIONS, RECTANGULAR ARRAYS AND/OR AREA MODELS.

3 * 135

I CAN MULTIPLY 1-DIGIT BY 4-DIGIT NUMBERS

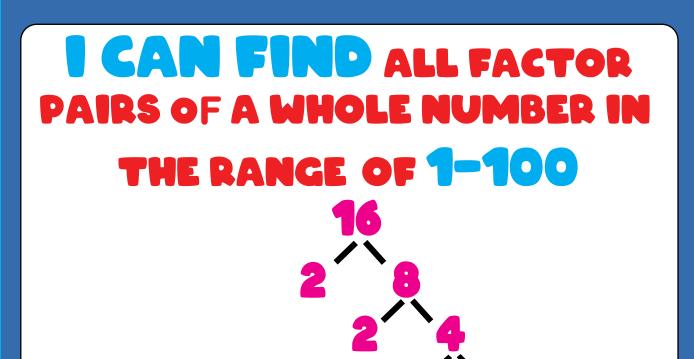
(RECTANGULAR ARRAYS AND/OR AREA MODELS.)
I CAN ILLUSTRATE AND EXPLAIN THE
CALCULATION BY USING EQUATIONS,
RECTANGULAR ARRAYS AND/OR AREA
MODELS.

5 × 2678

I CAN MULTIPLY 2-DIGIT DY 2-DIGIT NUMBERS

I CAN ILLUSTRATE AND EXPLAIN THE CALCULATION BY USING EQUATIONS, RECTANGULAR ARRAYS AND/OR AREA MODELS.

12 3 12





I KNOW IF A NUMBER IS PRIME OR COMPOSITE 5 IS PRIME 12 IS COMPOSITE

I CAN DIVIDE WITHIN 100

	0	1	2	3	4	5	6	7	8	9	10
=0	0	0	0	0	0	0	0	0	0	0	0
=1	0	1	2	3	4	5	6	7	8	9	10
=2	0	2	4	6	8	10	12	14	16	18	20
=3	0	3	6	9	12	15	18	21	24	27	30
=4	0	4	8	12	16	20	24	29	32	36	40
=5	0	5	10	15	20	25	30	38	40	45	50
=6	0	6	12	18	24	30	36	36	48	54	60
=7	0	7	14	21	28	35	42	42	56	63	70
=8	0	8	16	24	32	40	48	49	64	72	80
= 9	0	9	18	27	36	45	54	63	72	81	90
=10	0	10	20	30	40	50	60	70	80	90	100

I CAN DIVIDE 2-DICIT BY 1-DICIT NUMBERS

I CAN ILLUSTRATE AND EXPLAIN THE CALCULATION BY USING EQUATIONS, RECTANGULAR ARRAYS AND/OR AREA MODELS.

78 ÷ 5

10 ÷ 5 50 25

REMAINDER OF 3
78 = 15 x 5 + 3

I CAN DIVIDE

3-DIGIT BY 1-DIGIT NUMBERS.
I CAN ILLUSTRATE AND EXPLAIN THE
CALCULATION BY USING EQUATIONS,
RECTANGULAR ARRAYS AND/OR AREA MODELS.

$$10 + 5 + 1$$

Remainder of 7

$$135 = 16 \times 8 + 7$$

I CAN DIVIDE 4-DIGIT BY 1-DIGIT NUMBERS AN ILLUSTRATE AND EXPLAIN THE CALCULAT

I CAN ILLUSTRATE AND EXPLAIN THE CALCULATION BY USING EQUATIONS, RECTANGULAR ARRAYS AND/OR AREA MODEL.

1570 ÷ 2

750 + 35

1500 70

785

I CAN SOLVE DIVISION PROBLEMS WITH REMAINDERS

43 - 7

 $6 \times 7 + 1$

I CAN SOLVE WORD PROBLEMS

2 STEP WORD PROBLEMS
LUKE HAD 17 MARBLES.
HIS BROTHER HAD 2 TIMES AS
MANY.
HOW MANY DID THEY
HAVE ALTOGETHER?

I CAN SOLVE MULTI-STEP WORD PROBLEMS MARIA HAD 3 RINGS. HER SISTER HAD 4 TIMES AS MANY AS SHE DID. HER SISTER THENGAVE HER 2. HOW MANY DOES MARIA HAVE NOW?

HOW MANY DOES HER SISTER HAVE NOW?
HOW MANY DO THEY HAVE ALTOGETHER?

3+2=5 12-2=10

5 + 10 = 15

I CAN SOLVE BASIC MULTIPLICATION WORD PROBLEMS

THERE WERE 12 ROWS OF APPLE TREES.
THERE WERE 10 IN EACH ROW.

HOW MANY APPLE TREES WERE THERE?

12 × 10 = 120

I CAN SOLVE BASIC DIVISION WORD PROBLEMS

JAMAL HAD 10 RINGS. HE SHARED THEM WITH HIS BROTHER. THEY NOW HAVE THE SAME AMOUNT.

WRITE THE EQUATION IN THE BOX.

 $10 \div 2 = 5$

I CAN SOLVE THE 3 TYPES OF MULTIPLICATIVE COMPARISON WORD PROBLEMS

SUE HAS 9 BRACELETS.

SHE HAS 3 TIMES AS MANY AS HER

SISTER.

HOW MANY DOES HER SISTER HAVE?

 $9 \div 3 = 3$

I CAN INTERPRET THE REMAINDER HONG HAD 14 TOYS. HE SHARED THEM BETWEEN HIS 2 FRIENDS AND HIMSELF.
HOW MANY DID EACH PERSON GET?









I CAN GENERATE A NUMBER PATTERN THAT FOLLOWS A GIVEN RULE.

5, 10, 15, 20, 25, 30, 35, 40, 45, 50...

UNDERSTAND PLACE VALUE

4,251 = 4000 + 200 + 50 + 1

Four thousand two hundred fifty one

UNDERSTANDS THAT NUMBERS TO THE LEFT INCREASE AND NUMBERS TO THE RIGHT DECREASE.

10x the amount
1/10 the amount

55.55550.000 + 5.000 + 500 + 50 +5

I CAN TALK ABOUT NUMBERS IN EXPANDED FORM, STANDARD FORM AND WORD FORM

2570 = 2000 + 500 + 70 + 0

TWO THOUSAND FIVE HUNDRED SEVENTY

I CAN USE
PLACE VALUE WHEN
COMPARING
WHOLE NUMBERS
2345 > 457

I CAN COMPARE NUMBERS USING

>, =, AND < SYMBOLS

2345 > 1236

I CAN ROUND NUMBERS TO THE HUNDRED THOUSAND PLACE

256,789 ROUNDS TO 300,000

I CAN ADD MULTI-DIGIT NUMBERS

2578+8907

I CAN SUBTRACT MULTI-DIGIT NUMBERS 2000 - 99

UNDERSTAND FRACTIONS

I CAN DECOMPOSE FRACTIONS IN MORE THAN ONE WAY

CAN JUSTIFY DECOMPOSITIONS BY USING A VISUAL FRACTION MODEL.

$$\frac{5}{10} = \frac{2}{10} + \frac{3}{10}$$

$$\frac{1}{10} \frac{1}{10} \frac{1}{10} \frac{1}{10} \frac{1}{10} = \frac{1}{10} \frac{1}{10} + \frac{1}{10} \frac{1}{10} \frac{1}{10}$$

I CAN RECOGNIZE AND GENERATE EQUIVALENT FRACTIONS

$$\frac{2}{4}=\frac{4}{8}$$

I CAN COMPARE FRACTIONS WITH DIFFERENT NUMERATORS AND DIFFERENT DENOMINATORS
I CAN RECORD THE RESULT OF COMPARISONS WITH SYMBOLS

AND JUSTIFY THE CONCLUSIONS, E.G. BY USING A VISUAL FRACTION MODEL.

$$\frac{1}{3} > \frac{1}{6}$$

1 3								
<u>1</u>	<u>1</u>							

I CAN ADD MIXED NUMBERS WITH LIKE DENOMINATORS

1 3 + 2 3

I CAN SUBTRACT MIXED NUMBERS WITH LIKE DENOMINATORS

2 4 - 1 5

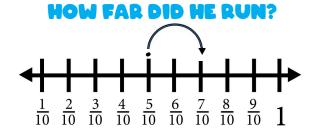
I CAN ADD FRACTIONS WITH LIKE DENOMINATORS

 $\frac{1}{10} + \frac{3}{10}$

I CAN SUBTRACT FRACTIONS WITH LIKE DENOMINATORS

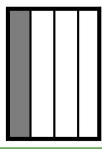
5 10 - 4 10 I CAN SOLVE ADDITION FRACTION WORD PROBLEMS BY USING VISUAL FRACTION MODELS AND EQUATIONS TO REPRESENT THE PROBLEM

RAUL RAN 2/10 OF A MILE IN THE MORNING AND 5/10 OF A MILE IN THE AFTERNOON.



I CAN SOLVE SUBTRACTION FRACTION WORD PROBLEMS BY USING VISUAL FRACTION MODELS AND EQUATIONS TO REPRESENT THE PROBLEM

GRANDMA MADE A CAKE.
THE KIDS ATE 1/4 OF IT.
HOW MUCH IS LEFT?



I CAN MULTIPLY A FRACTION BY A WHOLE NUMBER

 $2 \times \frac{1}{4}$

I CAN SOLVE WORD PROBLEMS INVOLVING MULTIPLICATION OF A FRACTION BY A WHOLE NUMBER BY USING VISUAL FRACTION MODELS AND EQUATIONS REPRESENTING THE PROBLEM

MARY RAN 1/4 OF A MILE FOR 3 DAYS.
HOW FAR DID SHE RUN?

UNDERSTAND DECIMALS

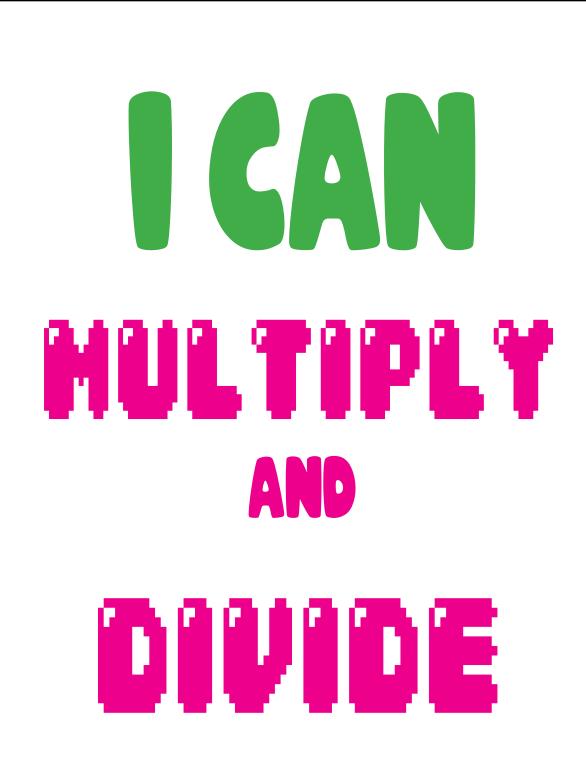
I CAN EXPRESS A FRACTION
WITH A DENOMINATOR 10 AS AN
EQUIVALENT FRACTION WITH A
DENOMINATOR OF 100.
I CAN ADD TWO FRACTIONS
WITH DENOMINATORS OF 100

$$\frac{2}{10} = \frac{20}{100}$$

I CAN USE DECIMAL NOTATION FOR FRACTIONS WITH DENOMINATORS 10 AND 100

$$.10 = \frac{1}{10}$$

I CAN COMPARE 2 DECIMALS TO HUNDREDTHS BY REASONING ABOUT THEIR SIZE.





2 X 4 5 X 10 8 X 9

CANCES -OCTOY 2-OCT NUCCES

I CAN ILLUSTRATE AND EXPLAIN THE CALCULATION BY USING EQUATIONS, RECTANGULAR ARRAYS AND/OR AREA MODELS.

2 % 12

1-DIGIT BY 3-DIGIT NUMBERS

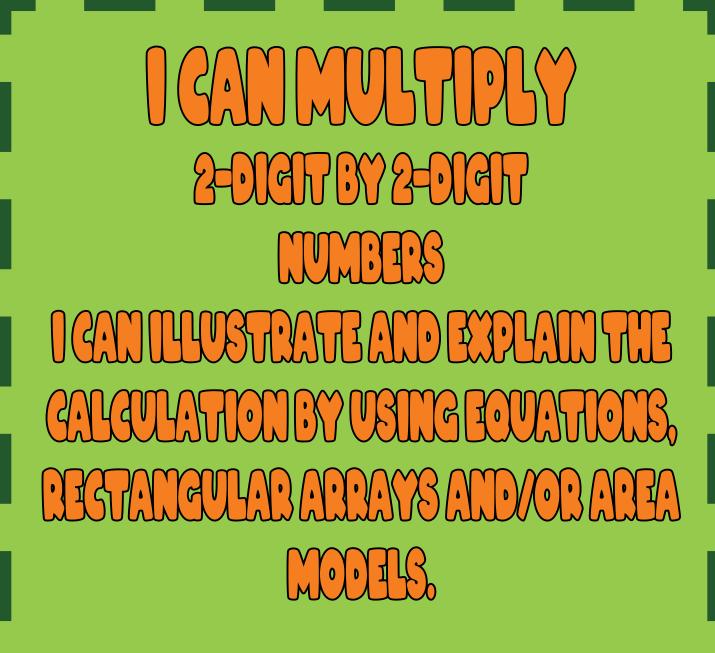
I CAN ILLUSTRATE AND EXPLAIN THE CALCULATION BY USING EQUATIONS, RECTANGULAR ARRAYS AND/OR AREA MODELS.

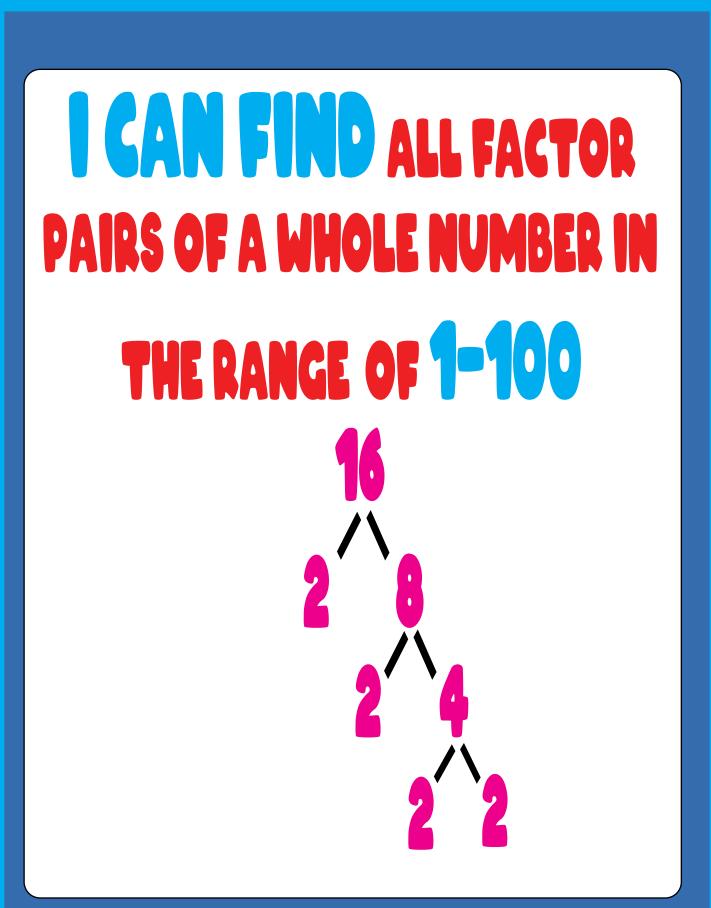
3 * 135

I CAN MULTIPLY 1-DIGIT BY 4-DIGIT NUMBERS

(RECTANGULAR ARRAYS AND/OR AREA MODELS.)
I CAN ILLUSTRATE AND EXPLAIN THE
CALCULATION BY USING EQUATIONS,
RECTANGULAR ARRAYS AND/OR AREA
MODELS.

5 X 2678







IKNOWIF A NUMBER IS PRIME OR COMPOSITE 5 IS PRIME 12 IS COMPOSITE

I CAN DIVIDE WITHIN 100

	0	1	2	3	4	5	6	7	8	9	10
=0	0	0	0	0	0	0	0	0	0	0	0
=1	0	1	2	S	4	5	6	7	8	9	10
=2	0	2	4	6	8	10	12	14	16	18	20
=3	0	3	6	9	12	15	18	21	24	27	30
=4	0	4	8	12	16	20	24	29	32	36	40
=5	0	5	10	15	20	25	30	38	40	45	50
=6	0	6	12	18	24	30	36	36	48	54	60
=7	0	7	14	21	28	35	42	42	56	63	70
=8	0	8	16	24	32	40	48	49	64	72	80
=9	0	9	18	27	36	45	54	63	72	81	90
=10	0	10	20	30	40	50	60	70	80	90	100

I CAN DIVIDE 2-DICT DY 1-DICT MANDERS

I CAN ILLUSTRATE AND EXPLAIN THE CALCULATION

OY USING EQUATIONS, DESTANGULAR ARRAYS

AND/OR AREA MODELS.

78 ÷ 5

REMAINDER OF 3

 $78 = 15 \times 5 + 3$

I CAN DIVIDE

3-DIGIT BY 1-DIGIT NUMBERS
I CAN ILLUSTRATE AND EXPLAIN THE
CALCULATION BY USING EQUATIONS,
RECTANGULAR
ARRAYS AND/OR AREA MODELS.

135 ÷ 8

Remainder of 7

 $135 = 16 \times 8 + 7$

I CAN DIVIDE

4-DIGIT BY 1-DIGIT NUMBERS

I CAN ILLUSTRATE AND EXPLAIN THE CALCULATION
BY USING EQUATIONS, RECTANGULAR ARRAYS
AND/OR AREA MODELS

1570 - 2

750 + 35

1500 70

785

I CAN SOLVE DIVISION PROBLEMS WITH REMAINDERS



6 x 7 + 1

I CAN SOLVE 2 STEP WORD PROBLEMS LURE HAD 17 MARBLES HIS BROTHER HAD 2 TIMES AS MANY. HOW MANY DID THEY HAVE ALTOGETHER?

I CAN SOLVE MULTI-STEP

WORD PROBLEMS

MARIA HAD 3 RINGS HER SISTER HAD 4 TIMES AS MANY AS SHE DID.
HER SISTER THEN GAVE HER 2.

HOW MANY DOES MARIA HAVE NOW? HOW MANY DOES HER SISTER HAVE NOW? HOW MANY DO THEY HAVE ALTOGETHER?

3+2=5 12-2=10 5+10=15

I CAN SOLVE BASIC MULTIPLICATION WORD PROBLEMS

THERE WERE 12 ROWS OF APPLE TREES.
THERE WERE 10 IN EACH ROW.

HOW MANY APPLE TREES WERE THERE?

12 × 10 = 120

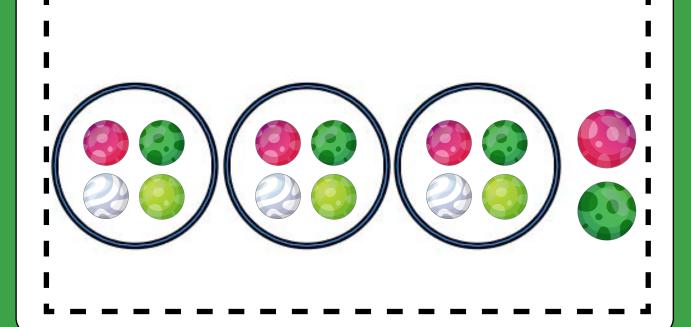
I CAN SOLVE
BASIC DIVISION WORD PROBLEMS

JAMAL HAD 10 RINGS. HE SHARED
THEM WITH HIS BROTHER. THEY NOW
HAVE THE SAME AMOUNT.
WRITE THE EQUATION FOR THIS PROBLEM

10 ÷ 2 = 5

I CAN SOLVE THE 3 TYPES OF MULTIPLICATIVE COMPARISON WORD PROBLEMS SUE HAS 9 BRACELETS. SHE HAS 3 TIMES AS MANY AS HER SISTER. HOW MANY DOES HER SISTER

I CAN INTERPRET THE REMAINDER
HONG HAD 14 TOYS. HE SHARED
THEM BETWEEN HIS 2 FRIENDS
AND HIMSELF.
HOW MANY DID EACH PERSON GET?



I CAN GENERATE A NUMBER PATTERN THAT FOLLOWS A GIVEN RULE

5, 10, 15, 20, 25, 30, 35, 40, 45, 50...

DESTAND PLACE VALU

4,251 = 4000 + 200 + 50 + 1Four thousand two hundred fifty one



I understand that numbers to the left increase and numbers to the right decrease.

10x the amount1/10 the amount

55,555

50,000 + 5,000 + 500 + 50 + 5

CANTALLACOUT NUMBERS MEXPANDED FORM STANDARD FORM AND WORD FORM

2570=2000+500+70+0

TWO THOUSAND FIVE HUNDRED SEVENTY

I CAN USE PLACE VALUE WHEN COMPARING WHOLE NUMBERS 2345 > 457

I CAN COMPARE NUMBERS USING Compare Numbers USING Compare Numbers USING

2345 > 1236

4th Grade Priority Math Goals - Dr. Nicki Newton 2022

I CAN ROUND NUMBERS TO THE HUNDRED THOUSAND PLACE

256,789 rounds to 300,000

I CAN ADD MULTI-DIGIT NUMBERS

2578+8907

I CAN SUBTRACT MULTI-DIGIT NUMBERS 2000 - 99

I CAN DECOMPOSE FRACTIONS IN MORE THAN ONE WAY

I CAN JUSTIFY DECOMPOSITIONS BY USING A VISUAL FRACTION MODEL.

$$\frac{5}{10} = \frac{2}{10} + \frac{3}{10}$$

$$\frac{1}{10} \frac{1}{10} \frac{1}{10} \frac{1}{10} \frac{1}{10} = \frac{1}{10} \frac{1}{10} + \frac{1}{10} \frac{1}{10} \frac{1}{10}$$

I CAN RECOGNIZE AND GENERATE EQUIVALENT FRACTIONS

$$\frac{2}{4} = \frac{4}{8}$$

I CAN COMPARE FRACTIONS WITH DIFFERENT NUMERATORS AND DIFFERENT DENOMINATORS I CAN RECORD THE RESULT OF COMPARISONS WITH SYMBOLS

AND JUSTIFY THE CONCLUSIONS, E.G. BY USING A VISUAL FRACTION MODEL.

$$\frac{1}{3} > \frac{1}{6}$$

1 3	
<u> 1</u> 6	<u>1</u>

I CAN ADD MIXED NUMBERS WITH LIKE DENOMINATORS

I CAN SUBTRACT MIXED NUMBERS WITH LIKE DENOMINATORS



I CAN ADD FRACTIONS WITH LIKE DENOMINATORS

 $\frac{1}{10} + \frac{3}{10}$

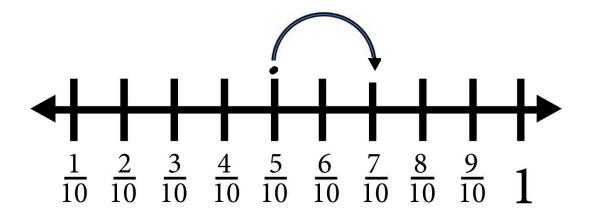
I CAN SUBTRACT FRACTIONS
WITH LIKE DENOMINATORS

5 <u>4</u> 10

I CAN SOLVE ADDITION FRACTION WORD PROBLEMS BY USING VISUAL FRACTION MODELS AND EQUATIONS TO REPRESENT THE PROBLEM.

RAUL RAN 2/10 OF A MILE IN THE MORNING AND 5/10 OF A MILE IN THE AFTERNOON.

HOW FAR DID HE RUN?



I CAN SOLVE SUBTRACTION FRACTION WORD PROBLEMS BY USING VISUAL FRACTION MODELS AND EQUATIONS TO REPRESENT THE PROBLEM GRANDMA MADE A CAKE. THE KIDS ATE 1/4 OF IT. **HOW MUCH IS LEFT?**

I CAN MULTIPLY A FRACTION BY A WHOLE NUMBER

I CAN SOLVE WORD PROBLEMS INVOLVING MULTIPLICATION OF FRACTIONS BY A WHOLE NUMBER BY USING VISUAL FRACTION MODELS AND EQUATIONS REPRESENTING THE PROBLEM

MARY RAN 1/4 OF A MILE FOR 3 DAYS.
HOW FAR DID SHE RUN?

$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$$

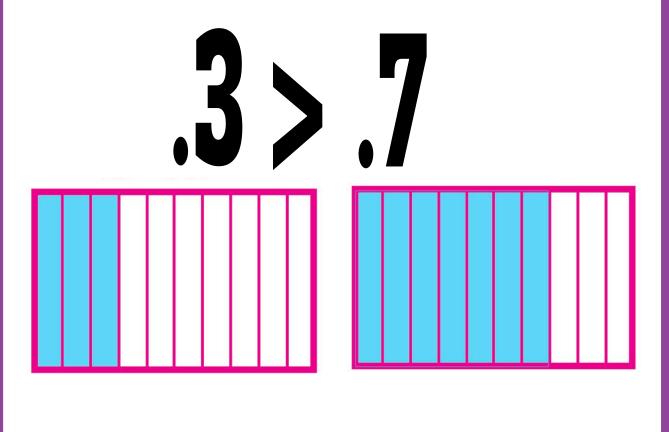
UNDERSTAND DECIMALS

I CAN EXPRESS A DENOMINATOR
10 AS AN EQUIVALENT FRACTION
WITH DENOMINATOR 100, AND
USE THIS TECHNIQUE TO ADD
TWO FRACTIONS WITH
RESPECTIVE DENOMINATORS 100

$$\frac{2}{10} = \frac{20}{100}$$

I CAN USE DECIMAL NOTATION FOR FRACTIONS WITH DENOMINATORS 10 AND 100

I CAN COMPARE 2 DECIMALS TO HUNDRED THE BY REASONING ABOUT THEIR SIZE.



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About the Dr. Nicki Newton

Dr. Nicki Newton is an education consultant who works with

Dr. Nicki Newton is an education consultant who works with schools and districts around the country and Canada on k-8 math curriculum. She has taught elementary school, middle school, and graduate school. Dr Nicki has an Ed.M. and an Ed.D from Teachers, College Columbia University. She is greatly interested in teaching and learning practices around the world and has researched education in Denmark, Guatemala and India. She has written several books, including being a part of the curriculum team for the new McGraw Hill Reveal Math series. She is currently working on a book about counting.

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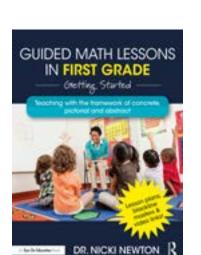
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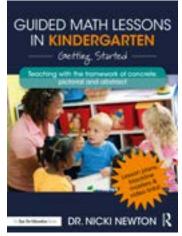


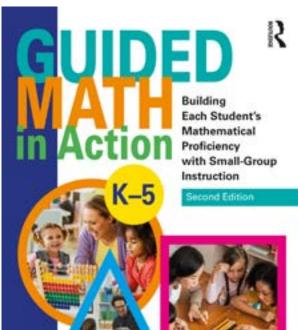
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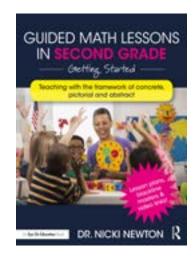
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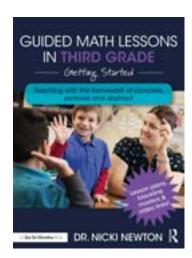
Contact her at drnicki7@gmail.com

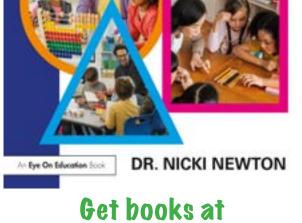




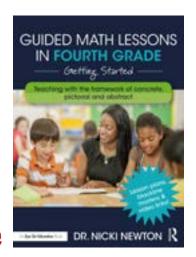






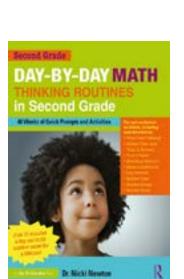


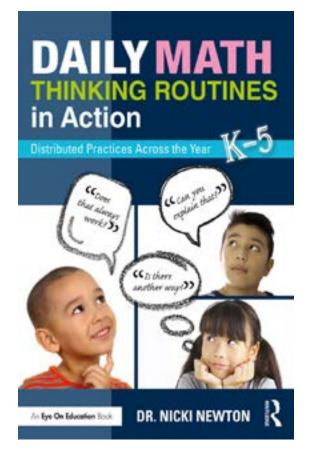
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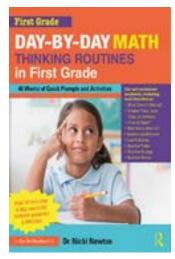


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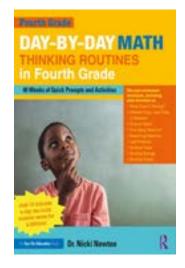


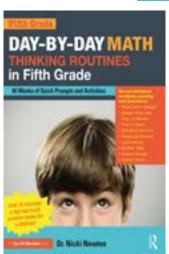








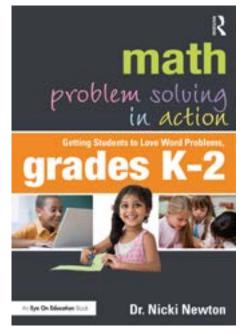




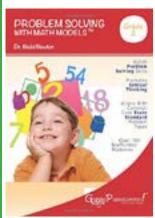
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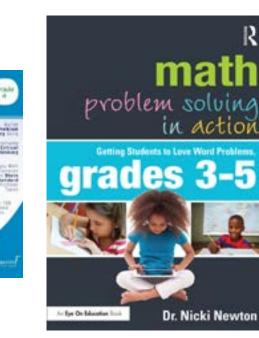


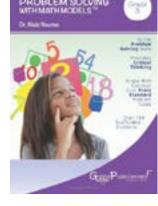
OBLEM SOLVING





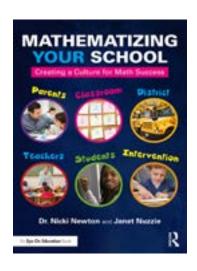


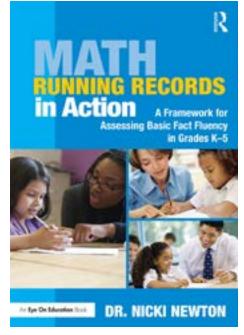


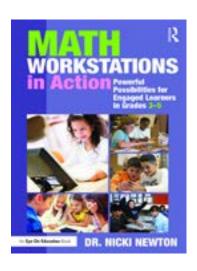


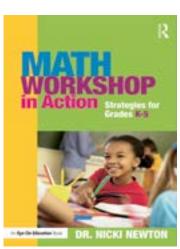


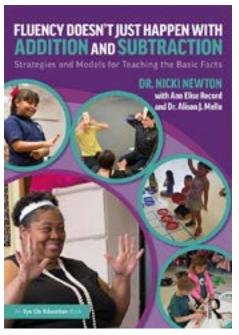
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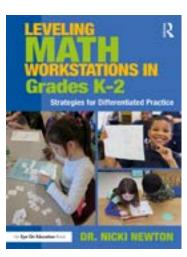


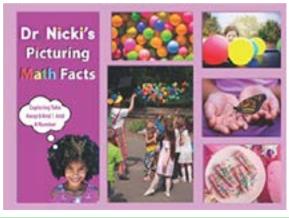


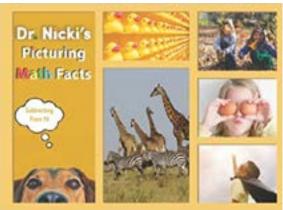












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