

5th GRADE PRIORITY MATH GOALS

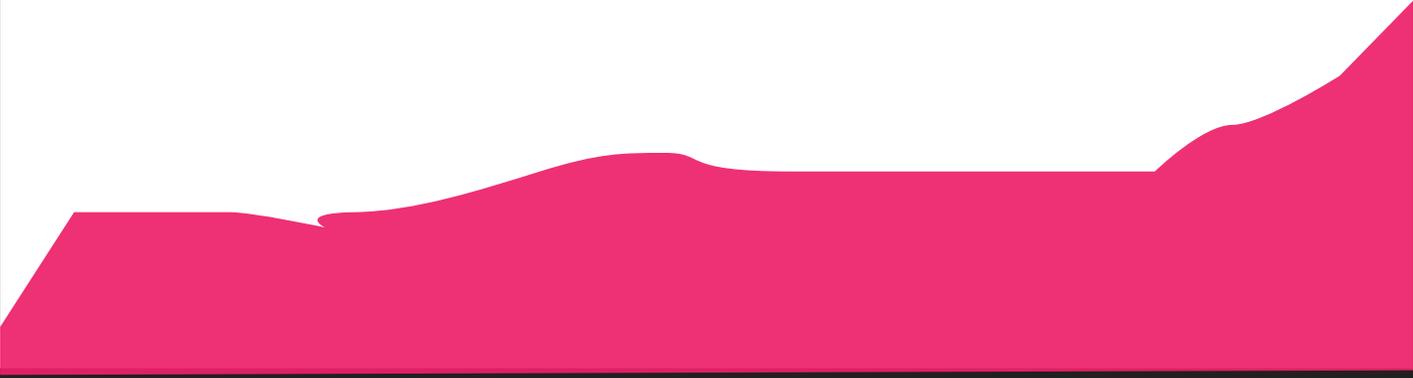
Building Number Sense!



I can work

with

whole numbers!



I can evaluate
order of operations
by using parenthesis (), brackets []
or braces { } **in numerical expressions.**

Example:

$$(2 + 8) + 24 - 12 = ?$$

I can write
simple expressions
that record calculations
with numbers.

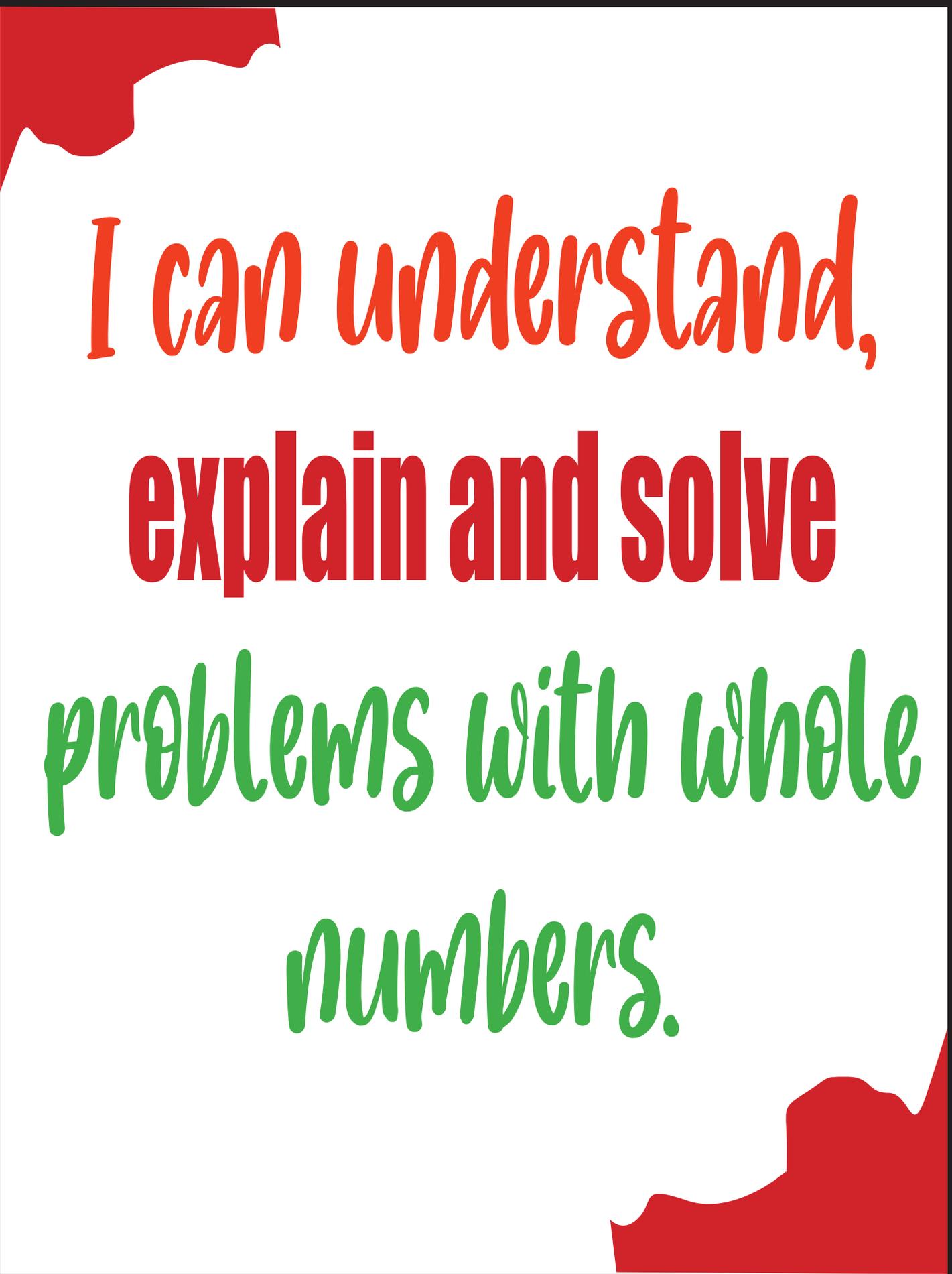
Example:

Add 7 and 4
then multiply by 3.

I can interpret
numerical expressions
without
evaluating them.

Example:

Recognize that
 $2 \times (1,213 + 89)$ is twice
as much as $1,213 + 89$



I can understand,
explain and solve
problems with whole
numbers.

I can recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and $1/10$ of what it represents in the place to its left.

Example:

55,555

$50,000 + 5000 + 500 + 50 + 5$

I can explain patterns in the zeros when you multiply by powers of 10.

30×10

3×100

3×1000

I can explain patterns of decimals when multiplying or dividing by powers of 10.

2 divided by 10

.2 divided by 100

.20 divided by 1000

I can fluently multiply multi-digit whole numbers using the standard algorithm.

Example:

$12 \times 15 = 180$

I have strategies to divide up to 4 digit dividends by 2 digit divisors.

Example:

$$\begin{array}{r} 155 \div 7 \\ 20 \quad + \quad 2 \\ \hline \mathbf{140} \quad | \quad \mathbf{14} \quad | \quad \mathbf{1} \end{array}$$

$(140 \div 7) + (14 \div 7) = 20 + 2 = 22$ Remainder of 1

I can show and explain division using equations, rectangular arrays, and/or area models.

Example:

$$1550 \div 70$$

$$20 \quad + \quad 2$$

1400	140	10
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$$Q = 22$$

$$R = 10$$

I can explain and use exponents.

Example:

$$2 \times 0.1 = 0.20$$

$$2 \times 0.01 = 0.02$$

**I can read, write
and compute with
decimals.**

.02 .7 .009

.99 + 0.05

three-tenths

2 x .01

I can read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g.,

$$347.392 = 3 \times 100 + 4 \times 10 + 7 \times 1 + 3 \times (1/10) + 9 \times (1/100) + 2 \times (1/1000).$$

$$.458 = 458/1000$$

four hundred fifty-eight thousandths

I can compare 2 decimals to thousandths using symbols. $>$, $=$, and $<$ to record the results of comparisons.

$$.75 > .33$$

$$.15 < .50$$

$$.250 = .25$$

I can round decimals.

Example:

$$.25 \text{ rounds to } .30$$

$$.7 \text{ rounds to } 1$$

I can add decimals to hundredths using strategies and models.

I can subtract decimals to hundredths using strategies and models.

I can multiply decimals to hundredths using strategies and models.

I can divide decimals to hundredths using strategies and models.

Example:

$$2 \times .02 = .04$$

$$.70 + .70 = 1.40$$

$$.95 - .47 = .48$$

$$.21 \div 3 = .07$$



FRACTIONS



I can add fractions with unlike denominators using models and strategies.

I can subtract fractions with unlike denominators using models and strategies.

Example:

$$\frac{3}{4} + \frac{1}{6} = \frac{9}{12} + \frac{2}{12} = \frac{11}{12}$$

I can solve fraction word problems involving adding with models and equations.

I can solve fraction word problems involving subtraction with models and equations.

Sue drank $\frac{1}{4}$ of a liter of water in the morning and $\frac{2}{8}$ in the afternoon. How much of the liter did she drink altogether?

$$\frac{1}{4} + \frac{2}{8} = \frac{2}{8} + \frac{2}{8} = \frac{4}{8} = \frac{1}{2}$$

I can reason about answers using benchmark fractions and number sense.

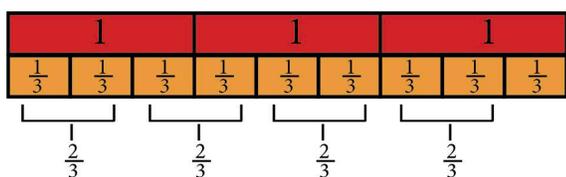
$$\frac{3}{4} + \frac{2}{8} \text{ is a little more than } 1$$

I can recognize errors by reasoning.

I can interpret a fraction as division of the numerator by the denominator.

Interpret $\frac{2}{8}$ as a result of dividing 2 by 8.

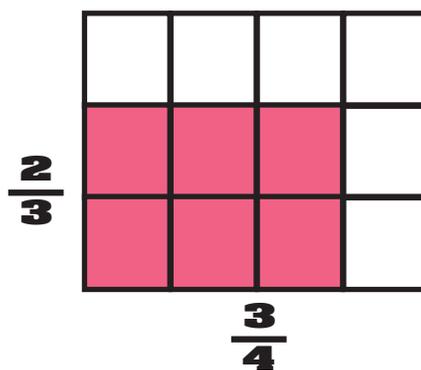
I can solve division word problems that result in answers with fractions or mixed numbers with models and equations.



$$3 \div \frac{2}{3} = 4 \frac{1}{2}$$

$$\frac{3}{1} \times \frac{3}{2} = \frac{9}{2} = 4 \frac{1}{2}$$

I can find the area of a rectangle with fractional side lengths.



I can reason about the size of factors in a multiplication problem.

I know that $\frac{1}{4}$ times a $\frac{1}{4}$ is less than 1 whole.

I can explain that multiplying a given number by a fraction greater than 1 results in a product greater than the given number.

$2 \times \frac{5}{3}$ is going to be two groups of $\frac{5}{3}$.

I can reason about the product when multiplying a given number by a fraction less than 1.

For example $2 \times \frac{1}{4}$ is 2 groups of $\frac{1}{4}$ which is $\frac{1}{2}$.

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

I can solve real world problems involving multiplication of fractions and mixed numbers.

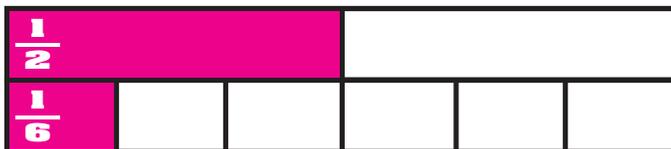
My brother gave me half of his candy bar. I gave $\frac{1}{2}$ of my $\frac{1}{2}$ to my sister. She got $\frac{1}{4}$ of the whole candy bar.

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



I can divide a fraction by a whole number.

$$\frac{1}{2} \div 3 = \frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$$



I can divide a whole number by a fraction.

$$2 \div \frac{1}{4} = 8$$



**I can explain
and calculate
volume.**

I recognize

volume as an attribute of solid figures and understand concepts of volume measurement.

I understand that volume describes how much space can be filled in a container .



I understand that volume can be described with various units of measure including counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.

I can solve real word problems involving volume. I can use the formula $v = l \times w \times h$ or $v = b \times h$ to find the volumes of right rectangular prisms with whole number edge lengths.

The box measured 3 ft by 4 ft by 5 ft. The volume was 60 cubic feet.

I can evaluate
order of operations
by using parenthesis (), brackets []
or braces { } **in numerical**
expressions.

Example:

$$(2 + 8) + 24 - 12 = ?$$

I can write
simple expressions
that record calculations
with numbers.

Example:

Add 7 and 4
then multiply by 3.

I can interpret numerical expressions without evaluating them.

Example:

Recognize that $2 \times (1,213 + 89)$ is twice as much as $1,213 + 89$

I CAN GENERATE

two numerical patterns using the two rules given. Identify apparent relationships between corresponding terms.

0 4 8 12 16 20 24 28 32 36 40
0 8 16 24 32 40 48 56 64 72 80

What do you notice?

I can recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and $1/10$ of what it represents in the place to its left.

Example:

55,555

$50,000 + 5000 + 500 + 50 + 5$

I can explain
explain patterns in the zeros when you multiply by powers of 10.

30×10

3×100

3×1000

**I can explain patterns
of decimals when
multiplying or dividing
by powers of 10.**

.2 divided by 10
.2 divided by 100
.20 divided by 1000

**I can fluently
multiply multi-digit
whole numbers using
the standard
algorithm.**

Example:

$$12 \times 15 = 180$$

I have strategies to divide up to 4 digit dividends by 2 digit divisors.

Example:

$$\begin{array}{r} 155 \div 7 \\ 20 \quad + \quad 2 \\ \hline \boxed{140} \quad \boxed{14} \quad \boxed{1} \\ (140 \div 7) + (14 \div 7) = 20 + 2 = 22 \text{ Remainder of } 1 \end{array}$$

I can show and explain division using equations, rectangular arrays, and/or area models.

Example:

$$\begin{array}{r} 1550 \div 7 \\ 20 \quad + \quad 2 \\ \hline \boxed{1400} \quad \boxed{140} \quad \boxed{10} \\ Q = 22 \\ R = 10 \end{array}$$

I can explain and use exponents.

Example:

$$2 \times 10 = 20$$
$$2 \times 10^2 = 200$$

I can read, write and compute with decimals.

.02 .7 .009

.99 + 0.05

three-tenths

2 x .01

I can read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g.,

$$347.392 = 3 \times 100 + 4 \times 10 + 7 \times 1 + 3 \times (1/10) + 9 \times (1/100) + 2 \times (1/1,000).$$

$$.458 = 458/1000$$

four hundred fifty-eight thousandths

I can compare 2 decimals to thousandths using symbols. $>$, $=$, and $<$ to record the results of comparisons.

$$.75 > .33$$

$$.15 < .50$$

$$.250 = .25$$

I can round decimals.

Example:

.25 rounds to .30

.7 rounds to 1

I can add decimals to hundredths using strategies and models.

I can subtract decimals to hundredths using strategies and models.

I can multiply decimals to hundredths using strategies and models.

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Example:

$$2 \times .02 = .04$$

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I can add fractions with unlike denominators using models and strategies.

I can subtract fractions with unlike denominators using models and strategies.

Example:

$$\frac{3}{4} + \frac{1}{6} = \frac{9}{12} + \frac{2}{12} = \frac{11}{12}$$

I can solve fraction word problems involving adding with models and equations.

I can solve fraction word problems involving subtraction with models and equations.

Sue drank $\frac{1}{4}$ of a liter of water in the morning and $\frac{2}{8}$ in the afternoon. How much of the liter did she drink altogether?

$$\frac{1}{4} + \frac{2}{8} = \frac{2}{8} + \frac{2}{8} = \frac{4}{8} = \frac{1}{2}$$

**I can reason about answers
using benchmark fractions and
number sense.**

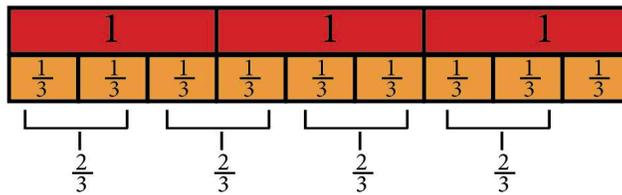
$$\frac{3}{4} + \frac{2}{8} \text{ is a little more than 1}$$

I can recognize errors by reasoning.

**I can interpret a
fraction as division
of the numerator by
the denominator.**

**Interpret $\frac{2}{8}$ as a
result of dividing 2 by 8.**

I can solve division word problems that result in answers with fractions or mixed numbers with models and equations.

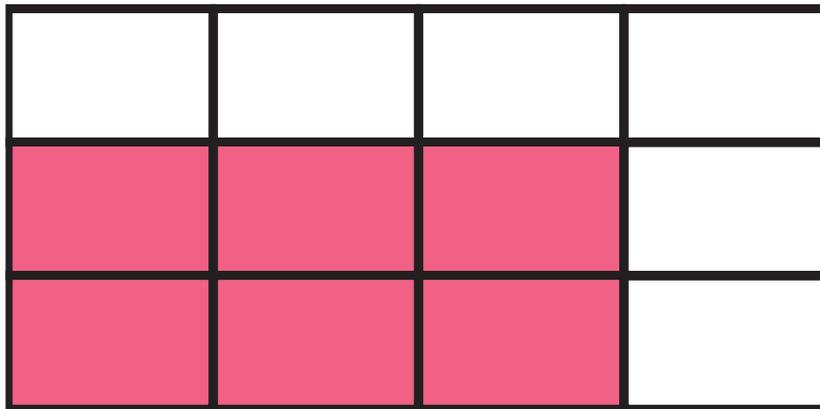


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$$\frac{3}{1} \times \frac{3}{2} = \frac{9}{2} = 4 \frac{1}{2}$$

I can find the area of a rectangle with fractional side lengths

6



$\frac{3}{4}$

I can reason about the size of factors in a multiplication problem.

I know that $\frac{1}{4}$ times a $\frac{1}{4}$ is less than 1 whole.

I can explain that multiplying a given number by a fraction greater than 1 results in a product greater than the given number.

$2 \times \frac{5}{3}$ is going to be two groups of $\frac{5}{3}$.

I can reason about the product when multiplying a given number by a fraction less than 1.

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

I can solve real world problems involving multiplication of fractions and mixed numbers.

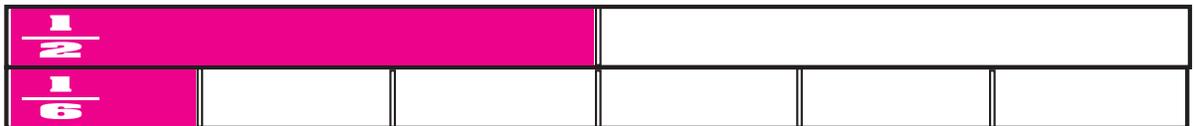
My brother gave me half of his candy bar. I gave $\frac{1}{2}$ of my $\frac{1}{2}$ to my sister. She got $\frac{1}{4}$ of the whole candy bar.

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



I can divide a fraction by a whole number.

$$\frac{1}{2} \div 3 = \frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$$



I can divide a whole number by a fraction.

$$2 \div \frac{1}{4} = 8$$



I recognize

**volume as an attribute
of solid figures and
understand concepts of
volume measurement.**

**I understand
that volume describes
how much space can be
filled in a container**



I understand that volume can be described with various units of measure including counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.



I can solve real word problems involving volume. I can use the formula $v = l \times w \times h$ or $v = b \times h$ to find the volumes of right rectangular prisms with whole number edge lengths.

The box measured 3 ft by 4 ft by 5 ft. The volume was 60 cubic feet.

I can evaluate
order of operations
by using parenthesis (),
brackets [] or braces { }
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expressions.

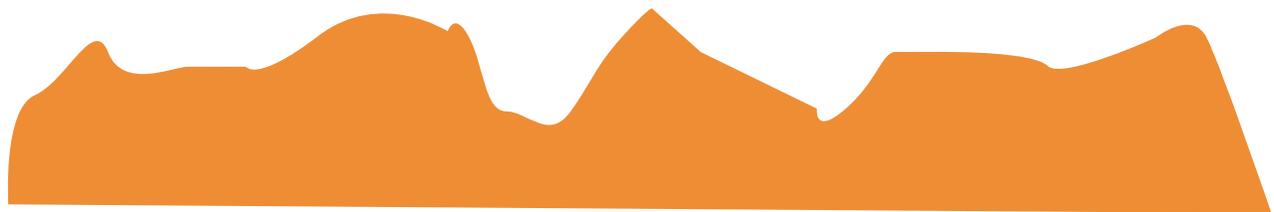
Example:

$$(2 + 8) + 24 - 12 = ?$$

I can write
simple
expressions
that record
calculations
with numbers.

Example:

Add 7 and 4
then multiply by 3.



I can
interpret
numerical
expressions
without
evaluating them.

Example:

Recognize that
 $2 \times (1,213 + 89)$ is twice
as much as $1,213 + 89$

I can recognize
**that in a multi-digit
number, a digit in one
place represents 10
times as much as it
represents in the place
to its right and 1/10 of
what it represents
in the place to its left.**

Example:

55,555

50,000 + 5000 + 500 + 50 + 5

**I can explain
patterns in the
zeros when you
multiply by powers
of 10.**

$$30 \times 10$$

$$3 \times 100$$

$$3 \times 1000.$$

I can explain patterns

**of decimals when
multiplying or dividing
by powers of 10.**

2 divided by 10

.2 divided by 100

.20 divided by 1000.

I can fluently
multiply multi-digit
whole numbers
using the
standard algorithm.

Example:

$$12 \times 15 = 180$$

**I have strategies
to divide up to 4
digit dividends
by 2 digit
divisors.**

Example:

$$1550 \div 70$$

$$20 \quad + \quad 2$$

1400	140	10
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$$(1400 \div 70) + (140 \div 70) = 20 + 2 = 22 \quad \text{Remainder of 10}$$

I can show and explain division using equations, rectangular arrays, and/or area models.

Example:

$$1550 \div 7$$

$$20 + 2$$

1400	140	10
-------------	------------	-----------

$$Q = 22$$
$$R = 10$$

I CAN
explain
and
use
exponents.

Example:

$$2 \times 10 = 20$$
$$2 \times 10^2 = 200$$

**I CAN READ,
WRITE AND
COMPUTE
with decimals.**

.02 .7 .009

.99 + 0.05

three-tenths

2 x .01

**I CAN READ
AND WRITE
DECIMALS
to thousandths
using base-ten
numerals, number
names, and
expanded form,
e.g.,**

$$347.392 = 3 \times 100 + 4 \times 10 + 7 \times 1 + 3 \times (1/10) + 9 \times (1/100) + 2 \times (1/1,000).$$

$$.458 = 458 / 1000$$

four hundred fifty-eight thousandths

I CAN COMPARE

**compare 2
decimals to
thousandths
using symbols.**

**>, =, and < to
record the results
of comparisons.**

$$.75 > .33$$

$$.15 < .50$$

$$.250 = .25$$

I CAN round decimals

Example:

.25 rounds to .30

.7 rounds to 1

I can add decimals to hundredths using strategies and models.

I can subtract decimals to hundredths using strategies and models.

I can multiply decimals to hundredths using strategies and models.

I can divide decimals to hundredths using strategies and models.

Example:

$$2 \times .02 = .04$$

$$.70 + .70 = 1.40$$

$$.95 - .47 = .48$$

$$.21 \div 3 = .07$$

**I can add fractions
with unlike
denominators using
models and strategies.**

**I can subtract
fractions with unlike
denominators using
models and strategies.**

Example:

$$\frac{3}{4} + \frac{1}{6} = \frac{9}{12} + \frac{2}{12} = \frac{11}{12}$$

I can solve fraction word problems involving adding with models and equations.

I can solve fraction word problems involving subtraction with models and equations.

Sue drank $\frac{1}{4}$ of a liter of water in the morning and $\frac{2}{8}$ in the afternoon. How much of the liter did she drink altogether?

$$\frac{1}{4} + \frac{2}{8} = \frac{2}{8} + \frac{2}{8} = \frac{4}{8} = \frac{1}{2}$$

**I can reason about answers
using benchmark fractions
and number sense.**

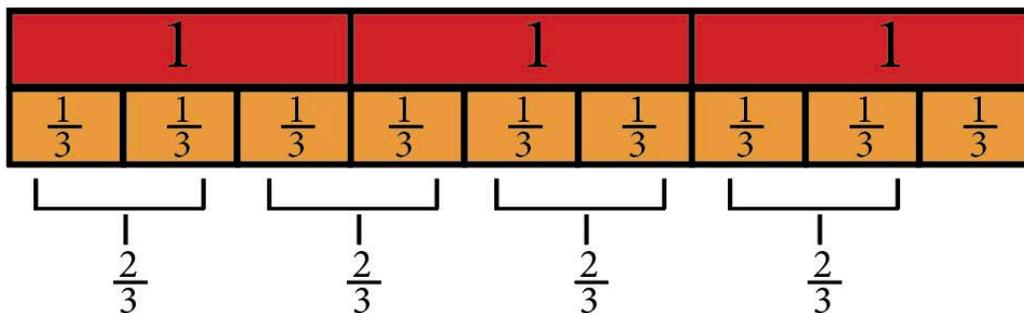
$$\frac{3}{4} + \frac{2}{8} \text{ is a little more than 1}$$

I can recognize errors by reasoning.

I CAN
INTERPRET A
fraction as division
of the numerator
by the denominator.

Interpret $\frac{2}{8}$ as a
result of dividing 2 by 8.

I CAN SOLVE
division word
problems that
result in
answers with
fractions or
mixed numbers
with models
and equations.



$$3 \div \frac{2}{3} = 4 \frac{1}{2}$$
$$\frac{3}{1} \times \frac{3}{2} = \frac{9}{2} = 4 \frac{1}{2}$$

**I can reason about
the size of factors in a
multiplication
problem.**

I know that $\frac{1}{4}$ times a
 $\frac{1}{4}$ is less than 1 whole.

I CAN GENERATE

*two numerical patterns
using the two rules given.*
**Identify apparent relationships
between corresponding terms.**

0 4 8 12 16 20 24 28 32 36 40

0 8 16 24 32 40 48 56 64 72 80

What do you notice?

I CAN EXPLAIN
that multiplying a
given number by a
fraction greater
than 1 results in a product
greater than the given number.

$2 \times \frac{5}{3}$ is going to be two
groups of $\frac{5}{3}$.

I can reason about the product when multiplying a given number by a fraction less than 1. For example $2 \times \frac{1}{4}$ is 2 groups of $\frac{1}{4}$ which is $\frac{1}{2}$.

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

**I CAN SOLVE
real world problems
involving
multiplication of
fractions and mixed
numbers.**

**My brother gave me half of
his candy bar. I gave $\frac{1}{2}$ of my
 $\frac{1}{2}$ to my sister. She got $\frac{1}{4}$ of
the whole candy bar.**

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



I can divide
a fraction by a
whole number.

$$\frac{1}{2} \div 3 = \frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$$

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

I can divide
a whole
number by a
fraction.

$$2 \div \frac{1}{4} = 8$$

1 whole

1 whole

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

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

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

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

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

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

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

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

**I RECOGNIZE
volume as an
attribute of
solid figures
and understand
concepts of
volume
measurement.**

I
UNDERSTAND
that volume
describes
how much space can
be filled in a
container.



I UNDERSTAND

that volume can be described with various units of measure including counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.



I CAN SOLVE
real word problems
involving volume.
I can use the
formula

$v = l \times w \times h$ or
 $v = b \times h$ to find the
volumes of right
rectangular prisms with
whole number edge
lengths.

The box measured 3 ft by
4 ft by 5 ft. The
volume was 60 cubic
feet.



GREAT MATH WORK!



can evaluate order of operations by using parenthesis $()$, brackets $[]$ or braces $\{\}$ in numerical expressions.

$$(2 + 8) + 24 - 12 = ?$$



GREAT MATH WORK!



can write simple expressions that record calculations with numbers.

Examples: Add 7 and 4 then multiply by 3.



GREAT MATH WORK!



can interpret numerical expressions without evaluating them.

Example:

RECOGNIZE THAT $2 \times (1,213 + 89)$ IS TWICE AS MUCH AS $1,213 + 89$.



GREAT MATH WORK!



can generate two numerical patterns using the two rules given. Identify apparent relationships between corresponding terms and can form ordered pairs consisting of corresponding terms from the two patterns, and graph ordered pairs on a coordinate plane.

- "Add 4" and the starting number is 0, and given the rule "Add 8" and the starting number is 0, generate terms in the resulting sequences, and observe that the terms in one sequence are twice the corresponding terms in the other sequence. Explain in your own words why this is so.



GREAT MATH WORK!



can understand, explain and
solve problems with
whole numbers.



GREAT MATH WORK!



can recognize that in a multi-digit number, a digit in one place
represents 10 times as much as it represents in the place to its
right and $\frac{1}{10}$ of what it represents in the place to its left.

5 5 , 5 5 5

$$50,000 + 5000 + 500 + 50 + 5$$



GREAT MATH WORK!



can explain patterns in the number of zeros of the product when multiplying a number by powers of 10.

.2 divided by 10

.2 divided by 100

.20 divided by 1000



GREAT MATH WORK!



can explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10.

$$2 \times 1000 = 2000$$

$$2 \times 100 = 200$$

$$2 \times 10 = 20$$



GREAT MATH WORK!



CAN FLUENTLY MULTIPLY MULTI-DIGIT WHOLE NUMBERS USING THE STANDARD ALGORITHM.

$$12 \times 15 = 180$$



GREAT MATH WORK!



CAN FIND WHOLE-NUMBER QUOTIENTS OF WHOLE NUMBERS WITH UP TO FOUR-DIGIT DIVIDENDS AND TWO-DIGIT DIVISORS, USING STRATEGIES BASED ON PLACE VALUE, THE PROPERTIES OF OPERATIONS, AND/OR THE RELATIONSHIP BETWEEN MULTIPLICATION AND DIVISION

$$1550 \div 7$$
$$20 + 2$$

1400	140	10
------	-----	----

$$(140 \div 7) + (14 \div 7) = 20 + 2 = 22 \text{ Remainder of } 10$$



GREAT MATH WORK!



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

$$1550 \div 7$$

$$20 + 2$$



$$Q = 22$$
$$R = 10$$



GREAT MATH WORK!



CAN USE WHOLE-NUMBER EXPONENTS TO

$$2 \times 10 = 20$$
$$2 \times 10^2 = 200$$



GREAT MATH WORK!



CAN READ WRITE AND COMPUTE
WITH DECIMALS.

.02 .7 .009

three-tenths

.99 + 0.05

2 x .01



GREAT MATH WORK!



can read and write decimals to thousandths using
base-ten numerals, number names, and expanded form.

.458 = 458/1000

four hundred fifty-eight thousandths



GREAT MATH WORK!



can compare two decimals to thousandths based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons.

$$.75 > .33$$

$$.15 < .50$$

$$.250 = .25$$



GREAT MATH WORK!



can use place value understanding to round decimals to any place.

$$.25 \text{ rounds to } .30$$

$$.7 \text{ rounds to } 1$$



GREAT MATH WORK!



can add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.

$$2 \times .02 = .04$$

$$.70 + .70 = 1.40$$

$$.95 - .47 = .48$$

$$.21 \div 3 = .07$$



GREAT MATH WORK!



can add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators

$$\frac{3}{4} + \frac{1}{6} = \frac{9}{12} + \frac{2}{12} = \frac{11}{12}$$



GREAT MATH WORK!



can solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, by using visual fraction models or equations to represent the problem.

Sue drank $\frac{1}{4}$ of a liter of water in the morning and $\frac{2}{8}$ in the afternoon. How much of the liter did she drink altogether?

$$\frac{1}{4} + \frac{2}{8} = \frac{2}{8} + \frac{2}{8} = \frac{4}{8} = \frac{1}{2}$$



GREAT MATH WORK!



can use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.

Recognize that an incorrect result

$\frac{2}{6} + \frac{1}{2} = \frac{3}{8}$ by observing $\frac{3}{8} < \frac{1}{2}$
that



GREAT MATH WORK!



can interpret a fraction as division of the numerator by the denominator.

Interpret $\frac{3}{5}$ as a result of dividing 3 by 5

-
-
-
-



GREAT MATH WORK!



can solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers, by using visual fraction models or equations to represent the problem.

If 6 people want to share a 25 lb. turkey equally by weight, how many pounds of turkey would each person get?

$$\frac{25}{6} = 4 \frac{1}{6}$$

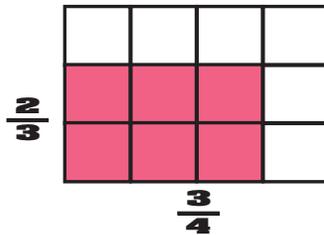
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GREAT MATH WORK!



can find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths, and show that the area is the same as would be found by multiplying the side lengths.



GREAT MATH WORK!



can compare the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication.

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



GREAT MATH WORK!



can explain that multiplying a given number by a fraction greater than 1 results in a product greater than the given number.

$$\frac{6}{5} \times 2 = \frac{6}{5} \times \frac{2}{1} = \frac{12}{5} = 2 \frac{2}{5}$$



GREAT MATH WORK!



can explain why multiplying a given number by a fraction less than 1 results in a product smaller than the given number.

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



GREAT MATH WORK!



can solve real world problems involving multiplication of fractions and mixed numbers.

- My brother gave me half of his candy bar. I gave $\frac{1}{2}$ of my $\frac{1}{2}$ to my sister.
- She got $\frac{1}{4}$ of the whole candy bar.
-
-
-



GREAT MATH WORK!



can divide a fraction by a whole number.

$$\frac{1}{2} \div 3 = \frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$$



GREAT MATH WORK!



can divide a whole number by a fraction.

$$\frac{1}{2} \div 3 = \frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$$



GREAT MATH WORK!



can explain and calculate volume.



GREAT MATH WORK!



recognizes volume as an attribute of solid figures and understand concepts of volume measurement.



GREAT MATH WORK!



understands that volume describes how much space can be filled in a container.





GREAT MATH WORK!



understands that volume can be described with various units of measure including counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.



GREAT MATH WORK!



can solve real world problems involving volume. I can use the formula $v = l \times w \times h$ or $v = b \times h$ to find the volumes of right rectangular prisms with whole number edge lengths.

The box measured 3 ft by 4 ft by 5 ft. The volume was 60 cubic feet.

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About the Dr. Nicki Newton



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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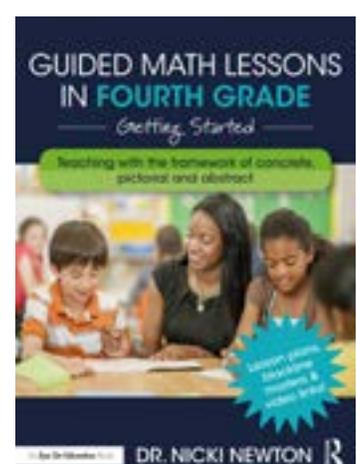
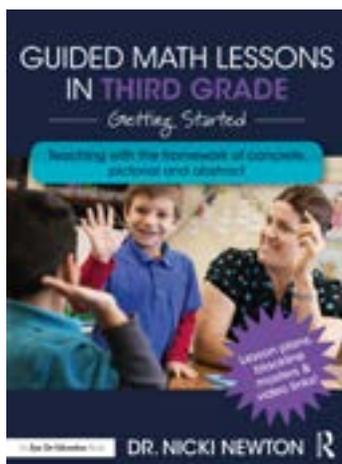
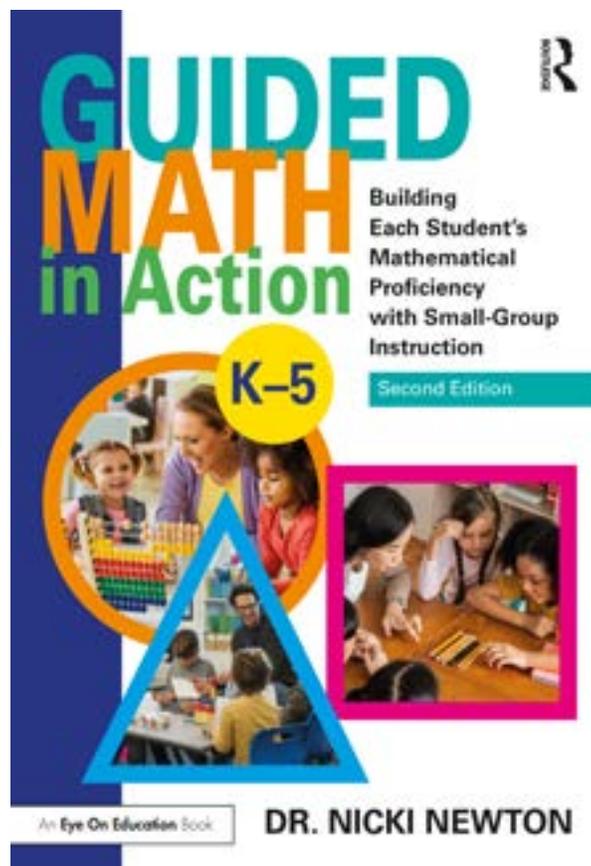
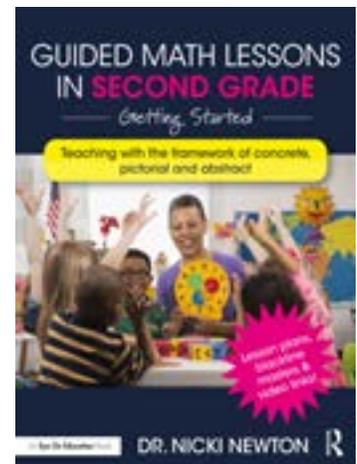
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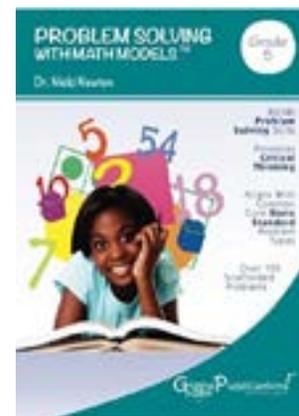
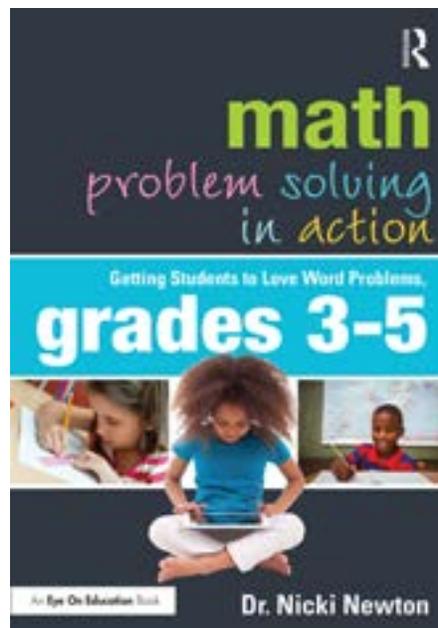
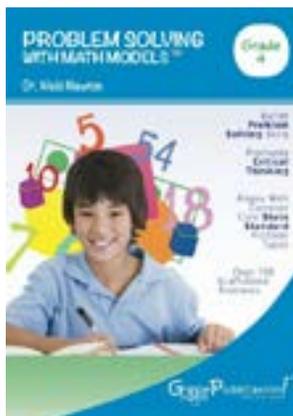
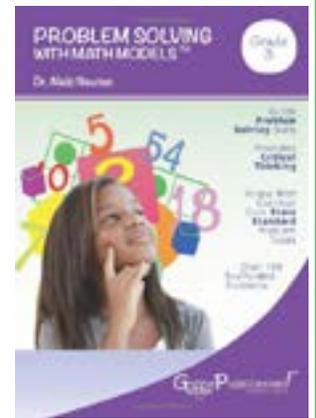
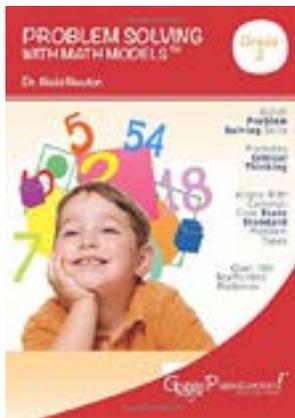
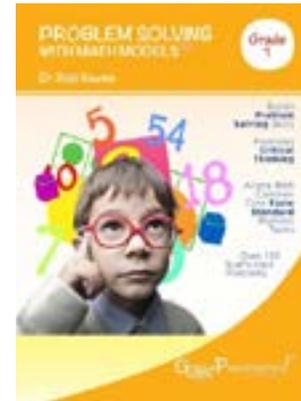
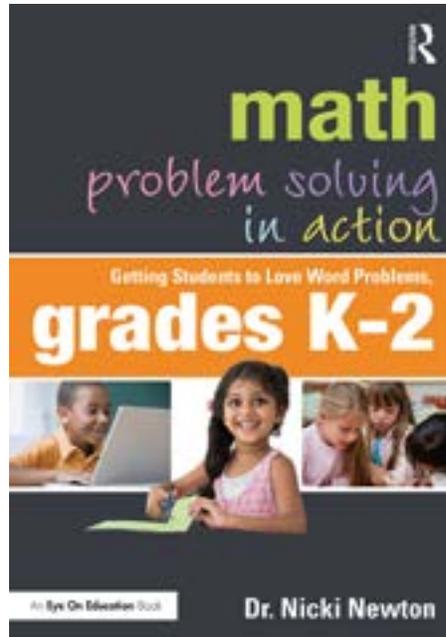
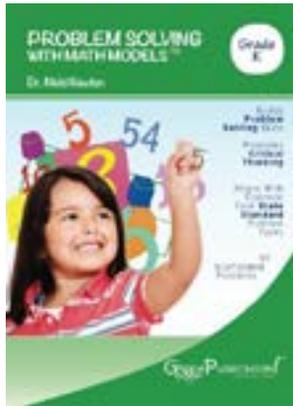
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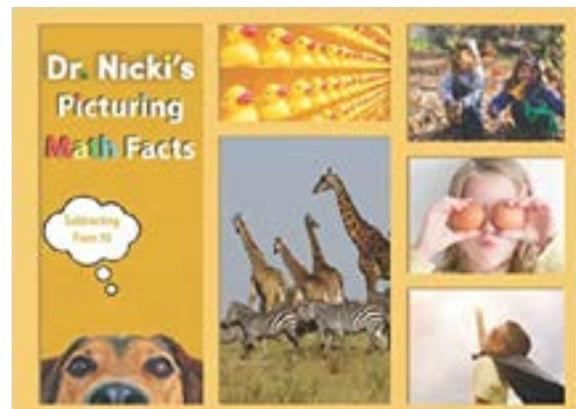
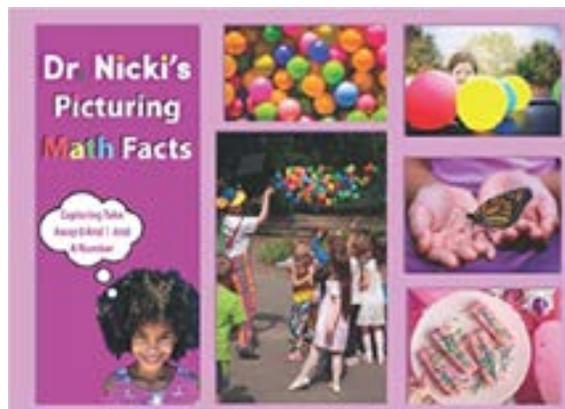
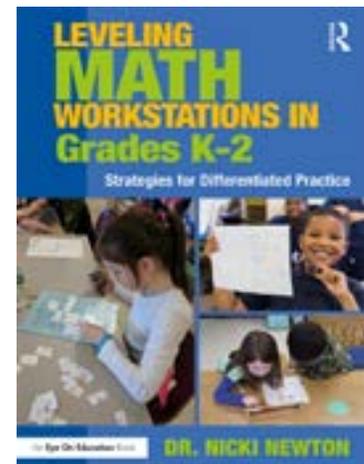
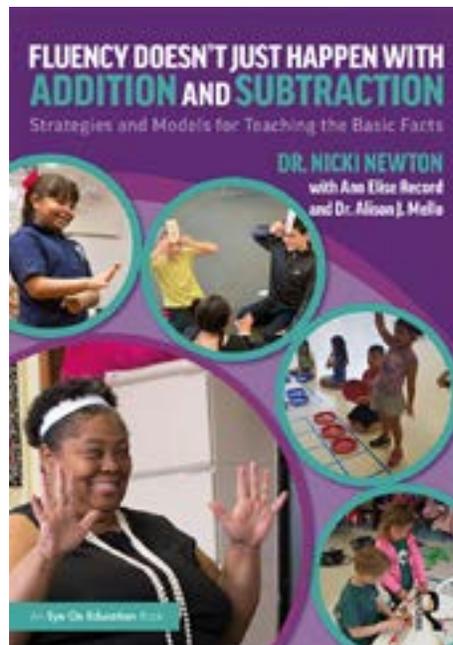
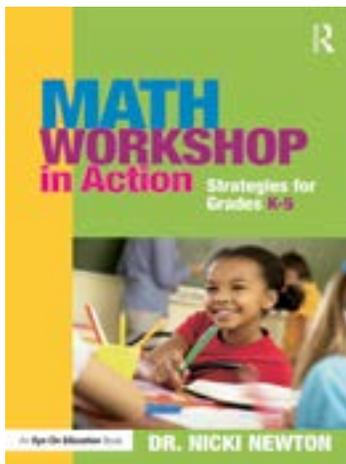
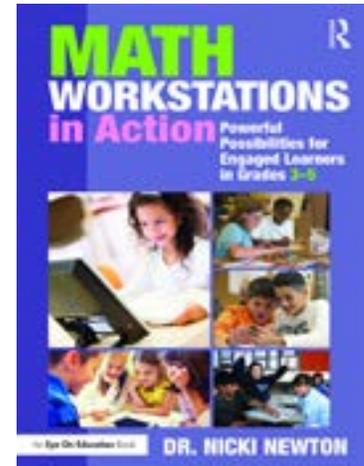
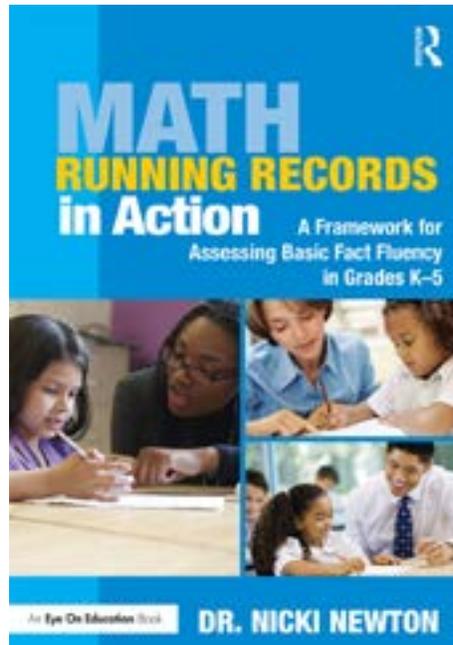
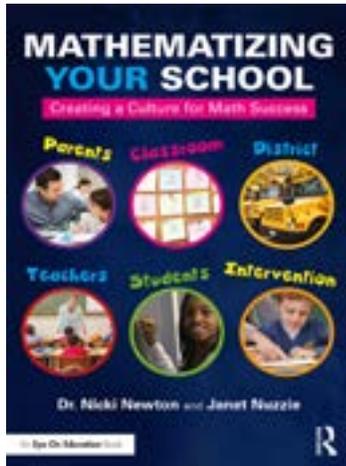


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