

Grade 3 Mathematics Overview



Welcome to Grade 3 Mathematics of the Elementary Integrated Curriculum

- A new model for curriculum, assessment, and instruction
- Aligned to the Common Core State Standards
- A unique integrated curriculum designed to develop a college-ready mindset in all students by fostering critical and creative thinking and academic success skills
- Will provide extension for our most advanced students and scaffolding for students in need of support



Operations and Algebraic Thinking

Multiplication and Division within 100

Strategies and Problem Solving

Geometry

Categorizing Shapes

Partitioning Shapes

Number and Operations in Base Ten

Add & Subtract Multi-Digit Numbers to 1000

Rounding Whole Numbers

Multiply by Multiples of Ten

Desired Outcomes

Measurement and Data

Area and Perimeter

Volume and Mass

**Scaled Picture Graphs
Scaled Bar Graphs**

Line Plots

Number and Operations—Fractions

Fractions as Numbers

Equivalence

Comparing



Multiply and Divide Within 100

$$8 \times 5 = 40$$

$$40 \div 5 = 8$$

properties of operations

To find 6×8 , I know
 $3 \times 8 = 24$ (3 groups of 8)
and double 24 to get 48, which is
6 groups of 8.

Multiply and Divide Within 100

drawings
models
arrays
equations

Two-Step Problems

four operations
drawings
equations
unknowns in all positions
estimation

OPERATIONS AND ALGEBRAIC THINKING

MON

SCHOOLS

the Best



Fluently Add and Subtract Within 1000

place value strategies
properties of operations
relationship between addition and subtraction

Round Whole Numbers to Nearest 10 or 100

374

To the nearest 10 → 380

To the nearest 100 → 400

Multiply 1-Digit Whole Numbers by a Multiple of 10

place value
properties of operations

$$2 \times 60 = 120$$

NUMBER AND OPERATIONS IN BASE TEN

MON

TOOLS
the Best



Fractions as Numbers on the Number Line

length models
number line drawings

Fractions as Numbers

unit fractions $\frac{1}{4}$

Just as every whole number is obtained by combining a sufficient number of 1s, every fraction is obtained by combining a sufficient number of unit fractions.

Denominators of 2, 3, 4, 6 & 8

Fraction Equivalence and Comparing Fractions

number line
visual fraction model

same numerator or same denominator

refer to the same whole
<, >, or =

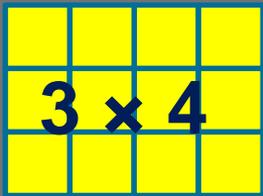
NUMBER AND OPERATIONS – FRACTIONS



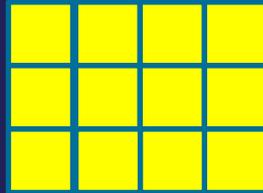
Calculating Area

tiling as repeated addition

relate to multiplication



Geometric Measurement – Area

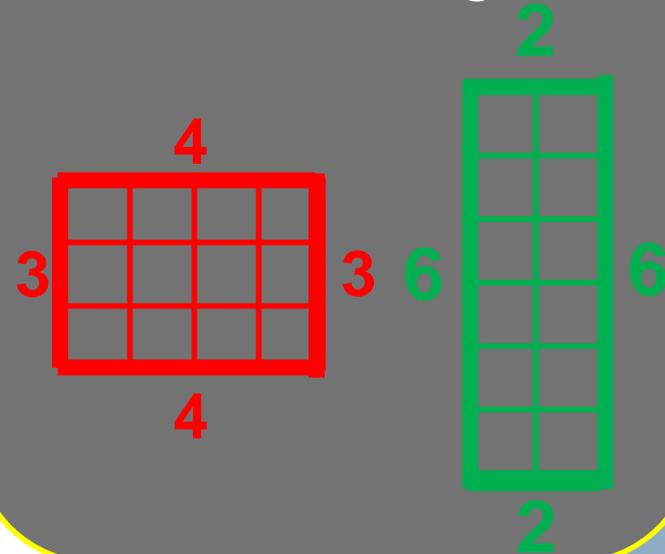


sq. inches, sq. feet, sq. centimeters, sq. meters

Geometric Measurement – Perimeter & Area

relate area and perimeter

unknown side lengths



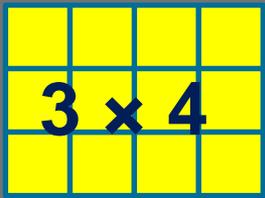
**MEASUREMENT
AND DATA – AREA
& PERIMETER**



Calculating Area

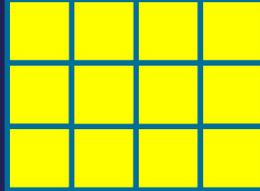
tiling as repeated addition

relate to multiplication



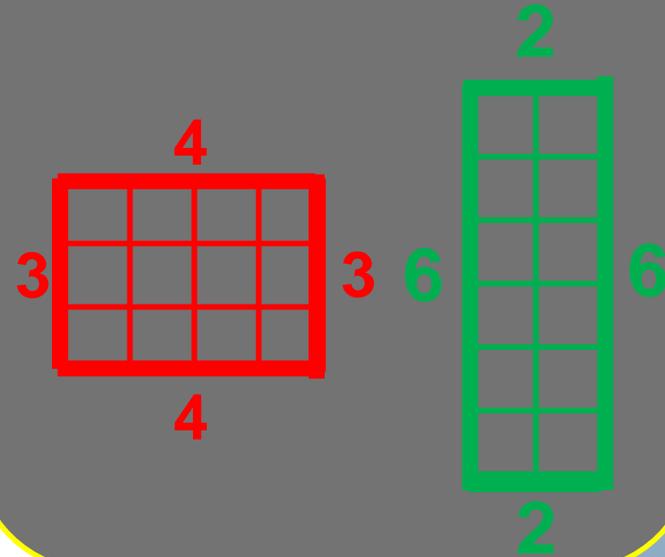
Geometric Measurement – Area

square centimeters, meters, inches & feet



Geometric Measurement – Perimeter

unknown side lengths
relate area and perimeter



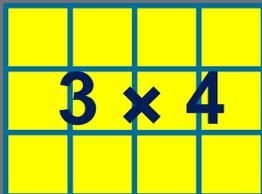
Distributive Property

MEASUREMENT AND DATA – AREA & PERIMETER

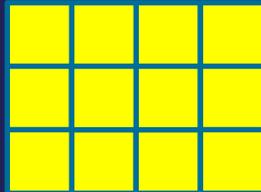


Calculating Area
tiling as repeated
addition

relate to multiplication

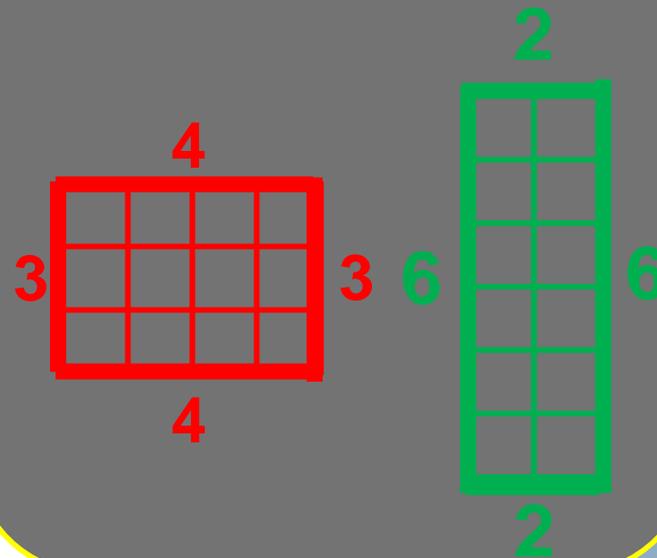


**Geometric
Measurement – Area**
square centimeters,
meters, inches & feet



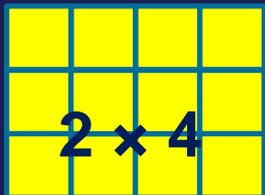
**Geometric Measurement–
Perimeter**

unknown side lengths
relate area and perimeter



**Distributive
Property**

1×4



**MEASUREMENT
AND DATA – AREA
& PERIMETER**

**Areas of Rectilinear
Figures**



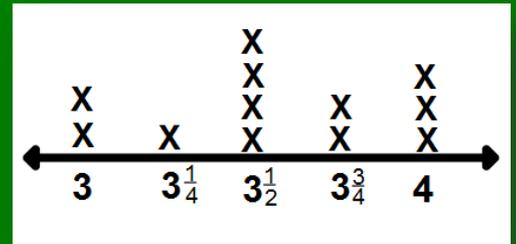
**Bar Graphs and
Picture Graphs**
multi-unit scales
problem solving

**Estimate and
Measure
Liquid Volume and
Mass**

grams, kilograms,
liters

use +, −, ×, ÷ to solve
one-step problems

Line Plot



Time

to the nearest minute

solve problems involving
intervals of time

number line diagram

**MEASUREMENT
AND
DATA**

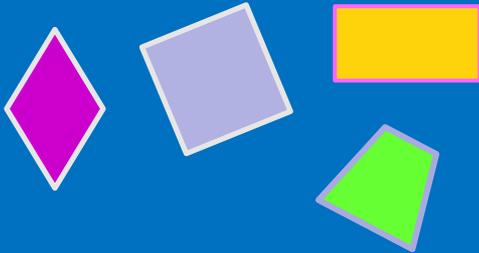
MON

SCHOOLS

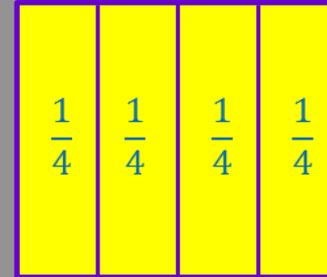
the Best



Categories



Partition Shapes



GEOMETRY



Elementary Integrated Curriculum

- Connections across content
- Engaging instruction
- Universally designed and culturally relevant curriculum
- Professional development on demand for educators in a user friendly web-based platform
- Where all students can be prepared for a lifetime of learning

