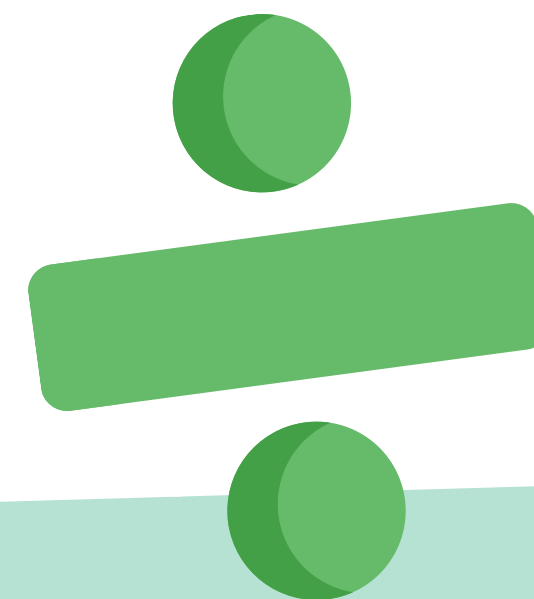
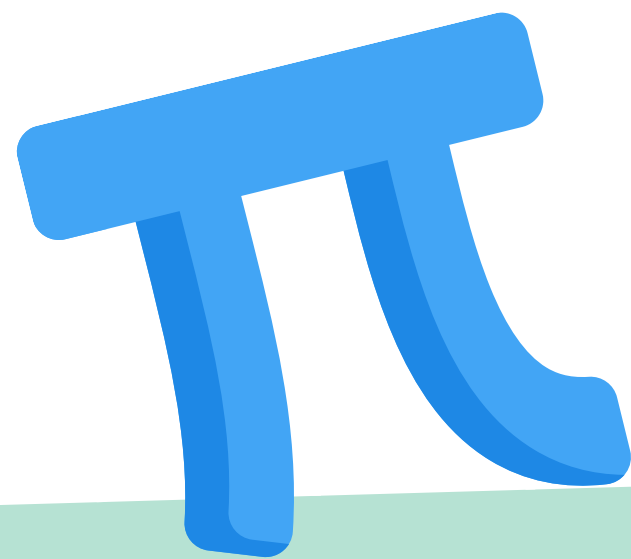




Third Grade

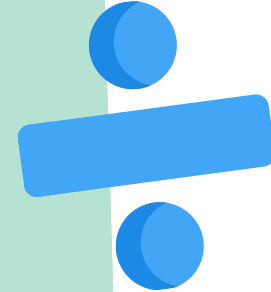
Math Curriculum

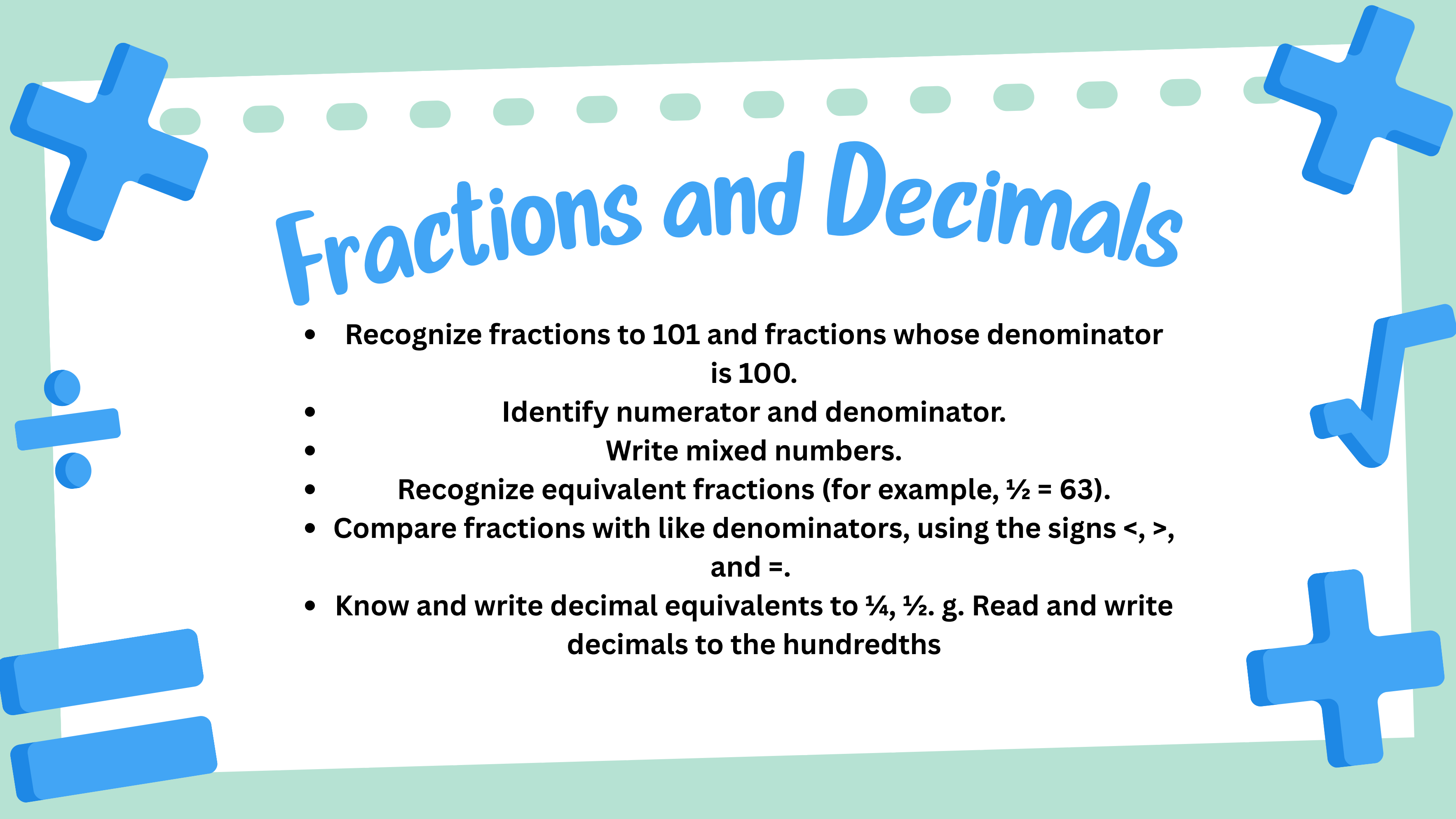




Numbers and Number Sense

- Read and write numbers (in digits and words) up to six digits.
- Recognize place value up to hundred thousand.
- Order and compare numbers to 999,999, using the signs $<$, $>$, and $=$.
- Count by twos, threes, fives, and tens; count by tens from any given number.
- Write numbers in expanded form.
- Use a number line.
- Identify ordinal position, 1st to 100th.
- Review: even and odd numbers; dozen; half-dozen; pair.
- Round to the nearest ten; to the nearest hundred.
- Identify perfect squares (and square roots) to 100, and recognize the square root sign: $\sqrt{\quad}$.
- Identify Roman numerals from 1 to 20 (I - XX).
- Understand what negative numbers are in relation to familiar uses (such as temperatures below zero).
- Locate positive and negative whole numbers on a number line.
- Create and interpret bar graphs and line graphs.
- Record outcomes for a simple event (for example, tossing a die) and display the results graphically.



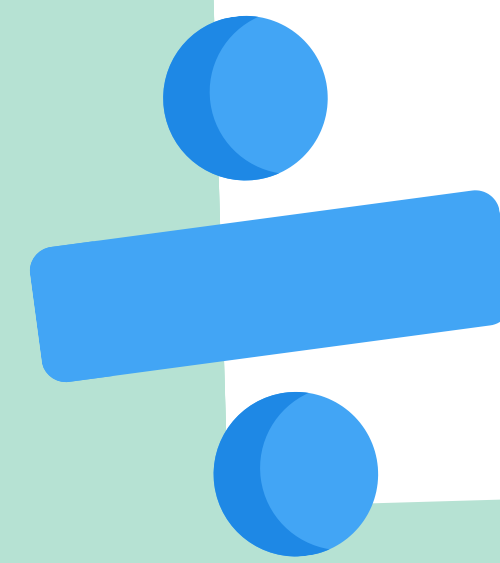


Fractions and Decimals

- Recognize fractions to 101 and fractions whose denominator is 100.
- Identify numerator and denominator.
- Write mixed numbers.
- Recognize equivalent fractions (for example, $\frac{1}{2} = \frac{63}{126}$).
- Compare fractions with like denominators, using the signs $<$, $>$, and $=$.
- Know and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$. g. Read and write decimals to the hundredths



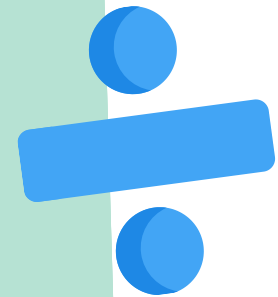
Money

- Write amounts of money using \$ and ¢ signs, and the decimal point.
 - Make change, using as few coins as possible.
 - Add and subtract amounts of money.
 - Multiply and divide amounts of money by small whole numbers.
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Addition

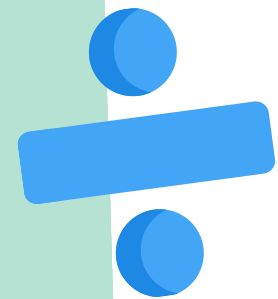
- Review and Practice Basic Addition Facts.
 - Mentally Estimate a Sum.
 - Use Mental Computation Strategies.
 - Addition With and Without Regrouping: Find the Sum (Up To 10,000) Of Any Two Whole Numbers.
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Subtraction

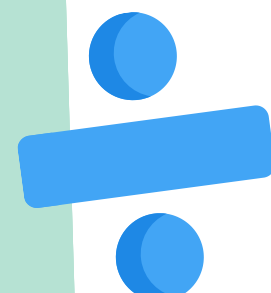
- Understand Addition and Subtraction as Inverse Operations; Use Addition to Check Subtraction.
 - Review and Practice Basic Subtraction Facts.
 - Mentally Estimate the Difference.
 - Use Mental Computation Strategies.
 - Subtraction With and Without Regrouping: Given Two Whole Numbers Of 10,000 Or Less, Find the Difference.
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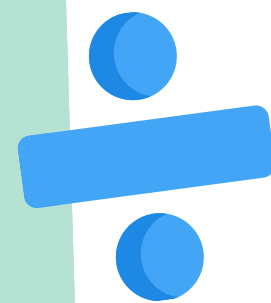
Multiplication

- Master basic multiplication facts to 10×10 .
 - Mentally multiply, by 10, 100, and 1,000.
 - Multiply two whole numbers, with and without regrouping, in which one factor is 9 or less and the other is a multi-digit number up to three digits.
 - Write numbers in expanded form using multiplication, for example: $9,278 = (9 \times 1,000) + (2 \times 100) + (7 \times 10) + 8$.
 - Estimate a product.
 - Solve word problems involving multiplication.
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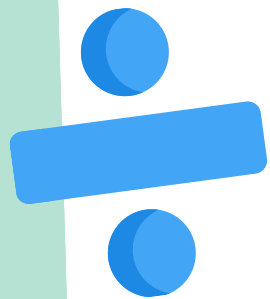
Division

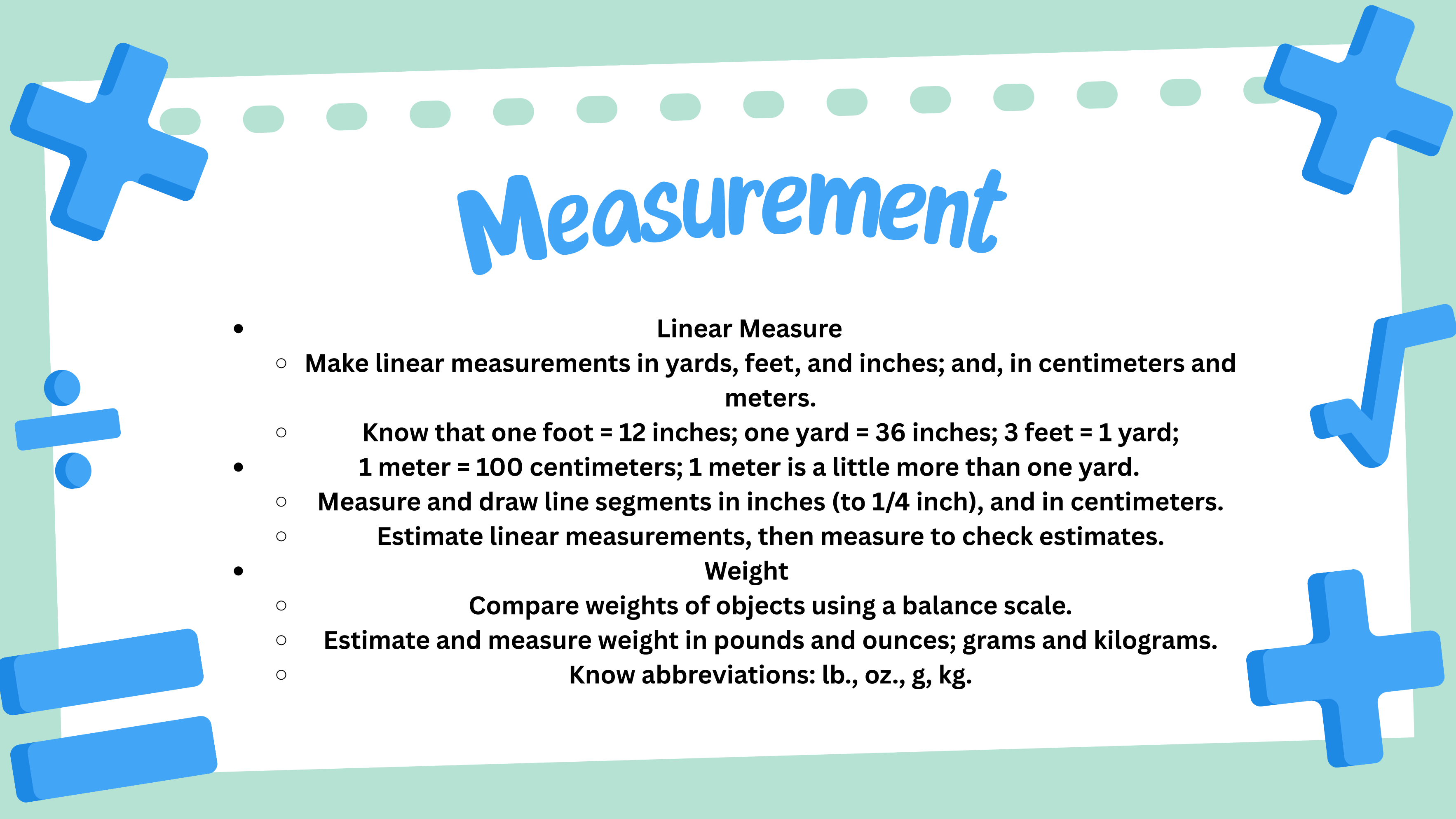
- Understand Multiplication and Division as Inverse Operations.
 - Know the Meaning of Dividend, Divisor, And Quotient.
 - Know Basic Division Facts To $100 \div 10$.
 - Know That Any Number Divided By 1 = That Number.
 - Divide Two- And Three-Digit Dividends by One-Digit Divisors.
 - Solve Division Problems with Remainders.
 - Check Division by Multiplying (And Adding Remainder).
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Solving Problems and Equations

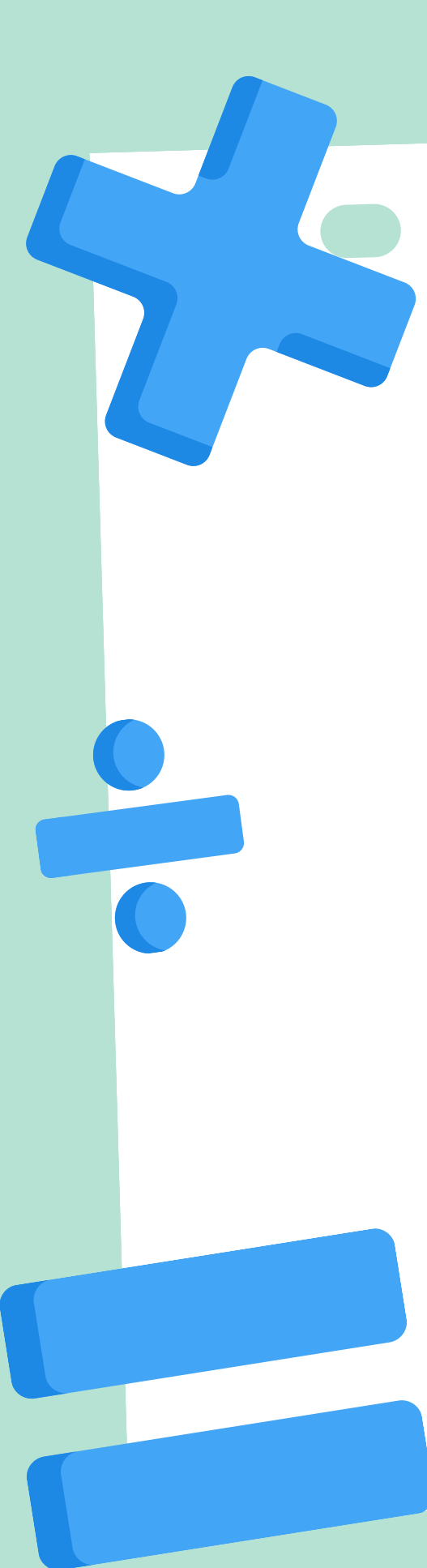
- Solve two-step word problems.
- Solve equations in the form of $__ \times 9 = 63$; $81 \div __ = 9$.
- Solve problems with more than one operation, as in $(43 - 32) \times (5 + 3) = __$.
- Read and write expressions that use parentheses to indicate order of multiple operations.





Measurement

- **Linear Measure**
 - Make linear measurements in yards, feet, and inches; and, in centimeters and meters.
 - Know that one foot = 12 inches; one yard = 36 inches; 3 feet = 1 yard; 1 meter = 100 centimeters; 1 meter is a little more than one yard.
- **Measure and draw line segments in inches (to $\frac{1}{4}$ inch), and in centimeters.**
- Estimate linear measurements, then measure to check estimates.
- **Weight**
 - Compare weights of objects using a balance scale.
 - Estimate and measure weight in pounds and ounces; grams and kilograms.
 - Know abbreviations: lb., oz., g, kg.

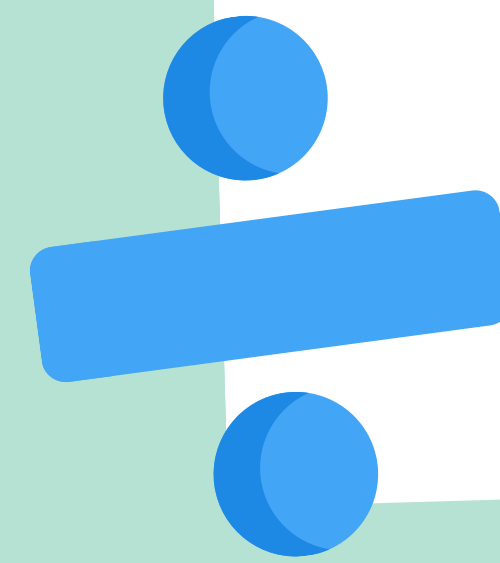


Measurement

- Capacity (Volume)
 - Estimate and Measure Liquid Capacity In Cups, Pints, Quarts, Gallons, And Liters.
 - Know That 1 Quart = 2 Pints; 1 Gallon = 4 Quarts.
 - Compare U.S. And Metric Liquid Volumes: Quart and Liter (One Liter Is A Little More Than One Quart).
 - Temperature
 - Measure and Record Temperature In Degrees Fahrenheit And Celsius.
 - Know the Degree Sign: °
 - Identify Freezing Point of Water As 32° F = 0° C.
 - Time
 - Read A Clock Face and Tell Time To The Minute As Either A. m. or p.m.; tell time in terms of both “minutes before” and “minutes after” the hour.
 - Solve problems on elapsed time (how much time has passed?).
 - Using a calendar, identify the date, day of the week, month, and year.
 - Write the date using words (for name of month) and numbers, and only numbers
- 



Geometry

- Identify lines as horizontal, vertical, perpendicular, or parallel.
 - Name lines and line segments (for example, line AB; segment CD).
 - Polygons: recognize vertex (plural: vertices); identify sides as line segments (for example, side CD); identify pentagon, hexagon, and octagon (regular).
 - Identify angles by letter names (for example, $\angle ABC$); identify a right angle; know that there are four right angles in a square or rectangle.
 - Compute area in square inches (in 2) and square centimeters (cm 2).
 - Recognize and draw congruent figures; identify a line of symmetry and create symmetric figures.
 - Identify solid figures: sphere, cube, rectangular solid, pyramid, cone, cylinder.
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