

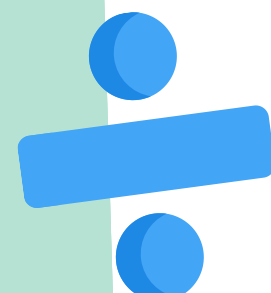


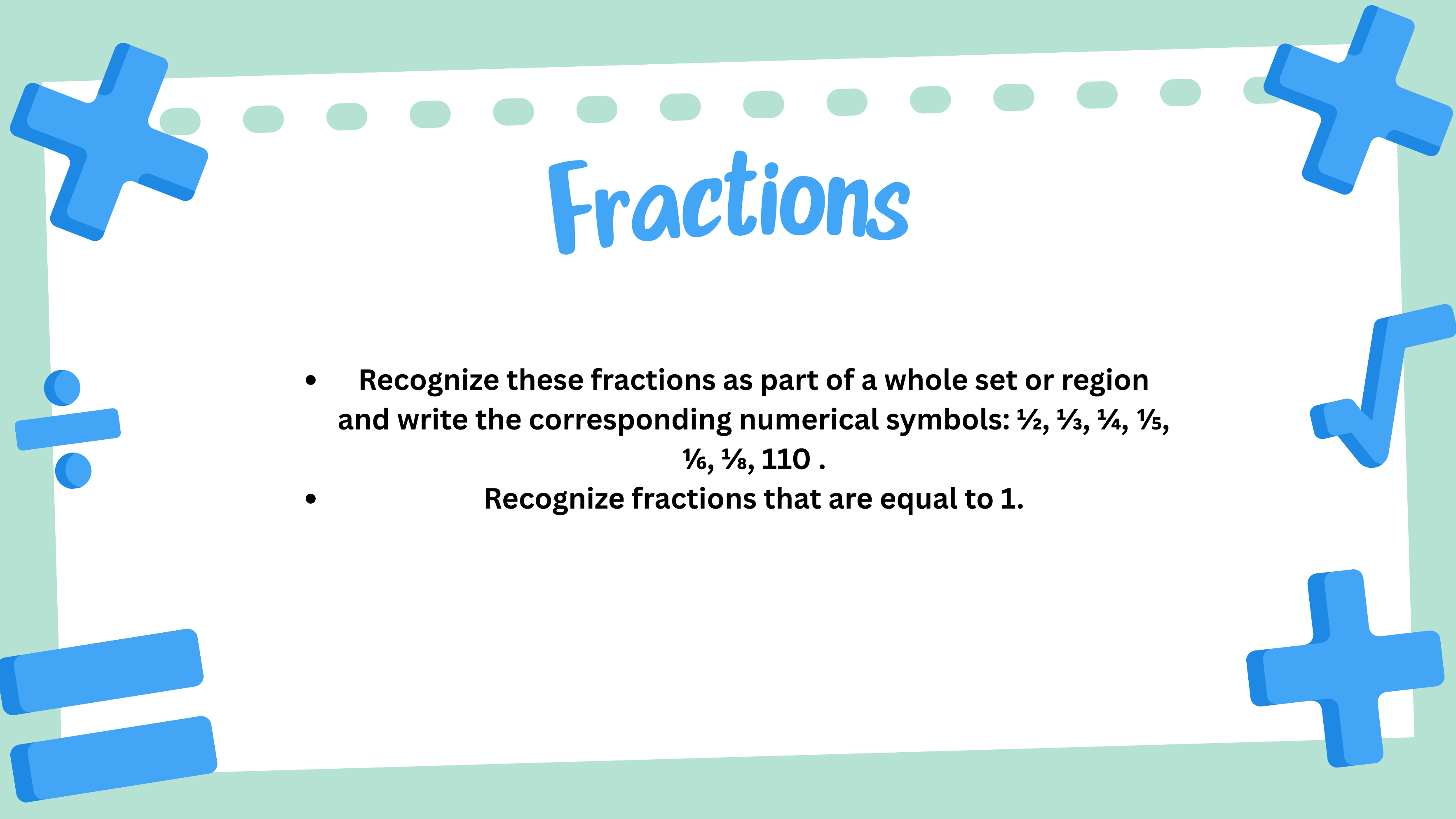
Math Curriculum



Numbers and Number Sense

- Write numbers to 1,000.
- Read and write words for numbers from one to one hundred.
- Order and compare numbers to 1,000, using the signs $<$, $>$, and $=$.
- Count
 - by twos, threes, fives, and tens
 - by tens from any given number
 - by hundreds to 1,000; by fifties to 1,000
 - forward and backward
- Use a number line.
- Use tallies.
- Identify ordinal position, 1st to 20th, and write words for ordinal numbers, first to twentieth.
- Identify even and odd numbers.
- Identify dozen; half-dozen; pair.
- Recognize place value: ones, tens, hundreds, thousands.
- Write numbers up to hundreds in expanded form (for example $64 = 60 + 4$; $367 = 300 + 60 + 7$).
- Given a number, identify one more and one less; ten more and ten less.
- Round to the nearest ten.
- Create and interpret simple bar graphs.
- Identify and extend numerical and symbolic patterns.
- Record numeric data systematically and find the lowest and highest values in a data set.



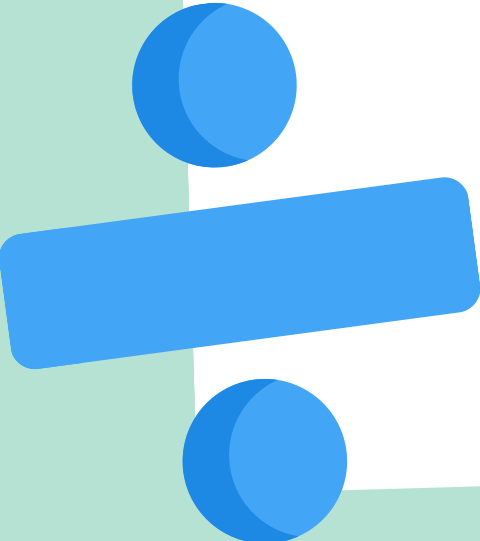


Fractions

- Recognize these fractions as part of a whole set or region and write the corresponding numerical symbols: $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{6}$, $\frac{1}{8}$, 110 .
- Recognize fractions that are equal to 1.



Money

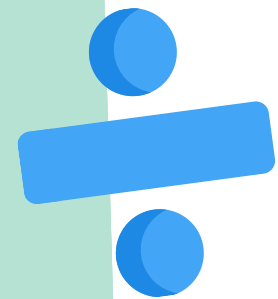
- Recognize relative values of a penny, nickel, dime, quarter, and dollar.
 - Write amounts of money using \$ and ¢ signs, and the decimal point.
 - Show how different combinations of coins equal the same amounts of money.
 - Add and subtract amounts of money.
 - Writing checks up to \$999,999.99
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Computation

- **Addition**

- **Achieve timed mastery of addition facts (2 seconds).**
- **Recognize what an addend is.**
- **Know how to write addition problems horizontally and vertically.**
- **Know how to add in any order and check a sum by changing the order of the addends.**
- **Estimate the sum.**
- **Solve two-digit and three-digit addition problems with and without regrouping.**
- **Find the sum (up to 999) of any two whole numbers.**
- **Add three two-digit numbers.**
- **Practice doubling (adding a number to itself).**

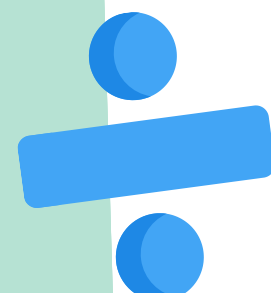




Computation

- **Subtraction**

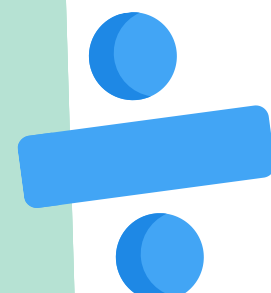
- Understand the inverse relation between addition and subtraction; use addition to check subtraction.
- Know addition and subtraction “fact families.”
- Achieve mastery of subtraction facts.
- Estimate the difference.
- Know how to write subtraction problems horizontally and vertically.
- Solve two-digit and three-digit subtraction problems with and without regrouping.
- Given two whole numbers of 999 or less, find the difference.

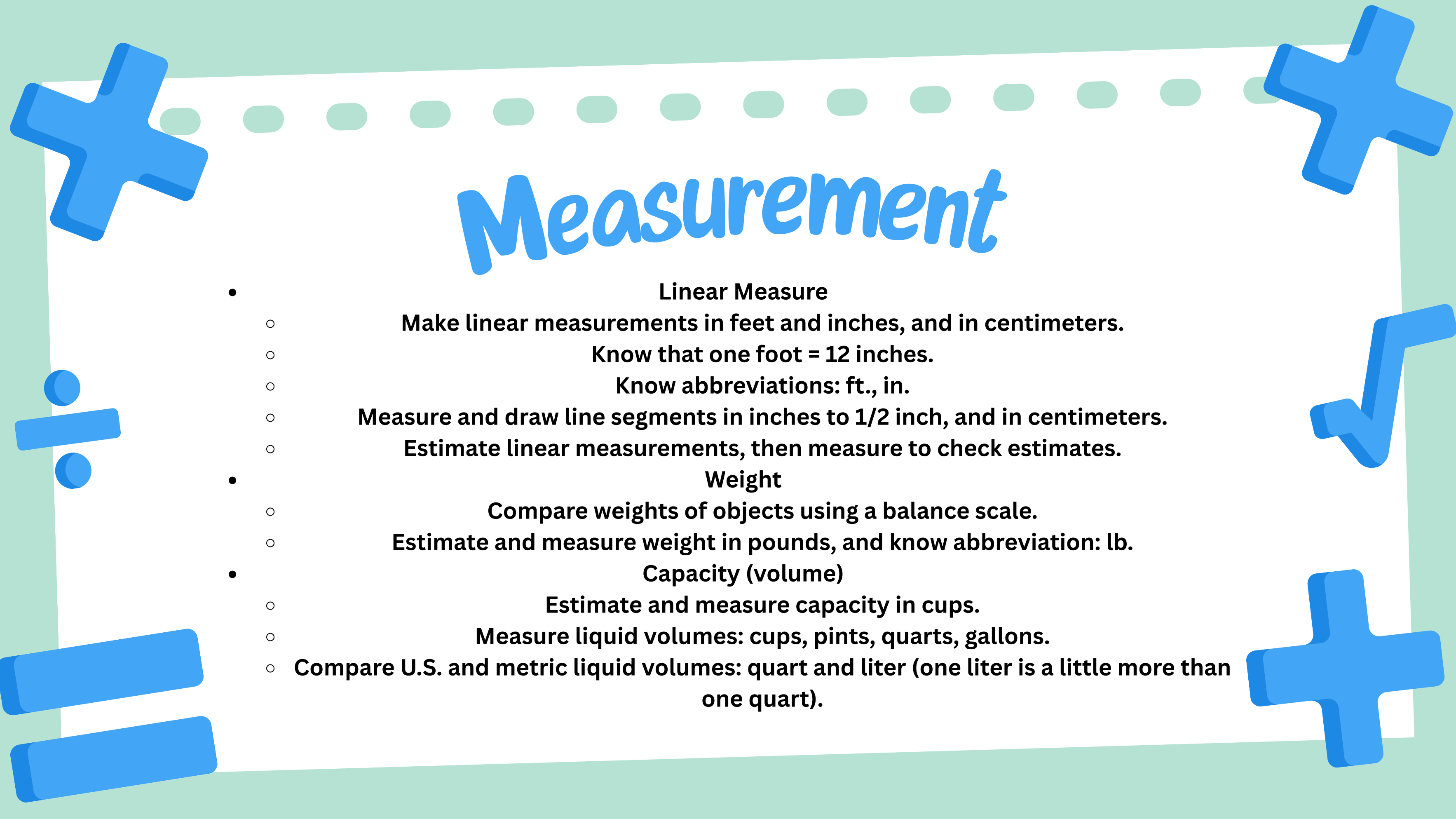




Computation

- Introduction to Multiplication
 - Recognize the “times” sign (x).
 - Know what “factor” and “product” mean.
 - Understand that you can multiply numbers in any order.
 - Multiplication facts: know the product of any single-digit number x 1, 2, 3, 4, 5.
 - Know what happens when you multiply by 1, by 0, and by 10.
 - Practice simple word problems involving multiplication.
- Solving Problems and Equations
 - Solve basic word problems.
 - Write and solve simple equations in the form of $__ - 9 = 7$; $7 + __ = 16$; $4 \times __ = 8$.





Measurement

- **Linear Measure**

- Make linear measurements in feet and inches, and in centimeters.

- Know that one foot = 12 inches.

- Know abbreviations: ft., in.

- Measure and draw line segments in inches to 1/2 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 know abbreviation: lb.

- **Capacity (volume)**

- Estimate and measure capacity in cups.

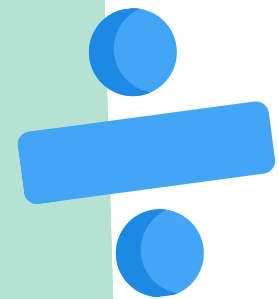
- Measure liquid volumes: cups, pints, quarts, gallons.

- Compare U.S. and metric liquid volumes: quart and liter (one liter is a little more than one quart).



Measurement

- **Temperature**
 - Measure and record temperature in degrees Fahrenheit to the nearest 2 degrees.
 - Know the degree sign: °
- **Time**
 - Read a clock face and tell time to five-minute intervals.
 - Know how to distinguish time as a.m. or p.m.
 - Understand noon and midnight.
 - 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 and numbers.





Geometry

- Identify and draw basic plane figures: square, rectangle, triangle, circle.
 - Describe square, rectangle, triangle according to number of sides; distinguish between square and rectangle as regards length of sides (a square has sides of equal length).
 - Measure perimeter in inches of squares and rectangles.
 - Identify solid figures—sphere, cube, pyramid, cone, cylinder—and associate solid figures with planar shapes: sphere (circle), cube (square), pyramid (triangle).
 - Make congruent shapes and designs.
 - Identify lines as horizontal; vertical; perpendicular; parallel.
 - Name lines and line segments (for example, line AB; segment CD).
 - Identify a line of symmetry and create simple symmetric figures.
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