

Fractions and Decimals: Grade 4

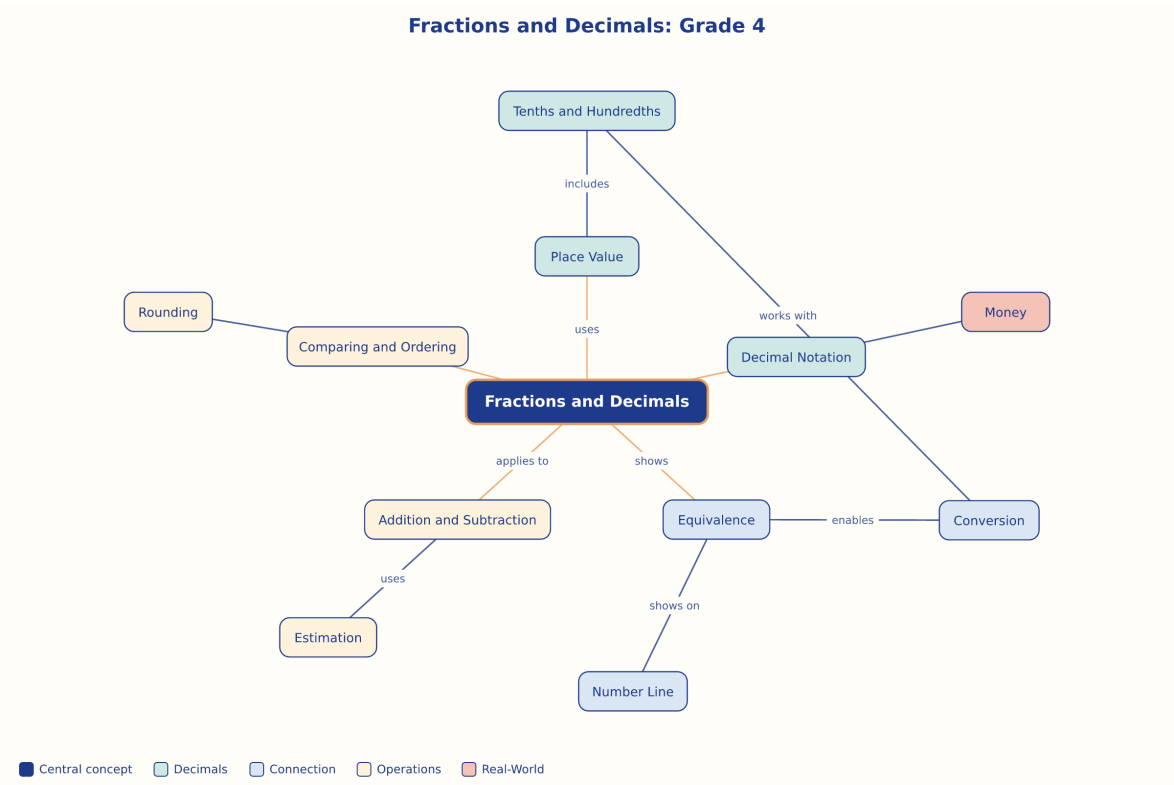
Central concept: **Fractions and Decimals**

Connections

- Fractions and Decimals (uses) -> Place Value
- Fractions and Decimals (uses) -> Decimal Notation
- Fractions and Decimals (shows) -> Equivalence
- Fractions and Decimals (applies to) -> Addition and Subtraction
- Fractions and Decimals (applies to) -> Comparing and Ordering
- Place Value (includes) -> Tenths and Hundredths
- Decimal Notation (represents) -> Money
- Equivalence (enables) -> Conversion
- Equivalence (shows on) -> Number Line
- Addition and Subtraction (uses) -> Estimation
- Comparing and Ordering (involves) -> Rounding
- Conversion (works with) -> Tenths and Hundredths

Notes

- **Fractions and Decimals:** Numbers that represent parts of a whole and can be expressed in different ways [Knowledge](#), [Understanding](#)
- **Place Value:** Each digit's position determines its value; each place is one-tenth of the place to its left [Outcome](#), [Knowledge](#)
- **Decimal Notation:** A point separates whole numbers from parts; used for money and measurements [Knowledge](#), [Understanding](#)
- **Equivalence:** Fractions and decimals can represent the same number [Knowledge](#), [Understanding](#)
- **Comparing and Ordering:** Use symbols $<$, $>$, or $=$ to compare decimal and fractional numbers [Skills](#)
- **Addition and Subtraction:** Standard algorithms work for decimal numbers to hundredths [Outcome](#), [Knowledge](#)
- **Tenths and Hundredths:** Place values that represent fractions with denominators of 10 and 100 [Knowledge](#), [Understanding](#)
- **Number Line:** Fractions and decimals mark the same positions between whole numbers [Skills](#), [Understanding](#)
- **Estimation:** Check if sums and differences are reasonable [Knowledge](#), [Skills](#)
- **Money:** Dollars and cents show decimal notation in everyday use [Skills](#), [Understanding](#)
- **Rounding:** Round decimal numbers to various places including tenths [Skills](#)
- **Conversion:** Express fractions as decimals and decimals as fractions with denominators 10 or 100 [Skills](#), [Knowledge](#)



Fractions and Decimals: Grade 4