

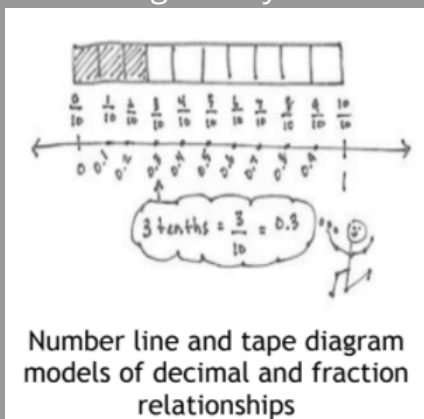
Grade 4

#WEAREcaddo

MISSION 6

Decimal Fractions

Students learn a new and special notation for fractions in this Mission: decimals! They extend their understanding of the base ten system by first exploring equivalence between fractions and decimals. This understanding extends to comparing decimals and adding money.



Fraction Expanded Form

$$(3 \times 10) + (4 \times 1) + (3 \times \frac{1}{10}) = 34 \frac{3}{10}$$

Decimal Expanded Form

$$(3 \times 10) + (4 \times 1) + (3 \times 0.1) = 34.3$$

3 tens, 4 ones, and 3 tenths:
Fraction Expanded Form and
Decimal Expanded Form

How you can help at home:

- Continue to practice and review multiplication and division facts - this greatly supports work with fractions!
- In any decimal number, ask your student the value of each digit, e.g., the 4 in 5.4 is 4 tenths.
- Use Khan Academy to support the learning of decimal fractions:
<https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-fractions-decimals/cc-7th-fracs-to-decimals/v/decimals-and-fractions>

Terms, Phrases and Strategies in this Mission:

- ❑ **decimal number** - number written using place value units that are powers of 10
- ❑ **decimal fraction** - a fraction with a denominator of 10, 100, 1000, etc...
- ❑ **decimal point** - period used to separate the whole number part from the fractional part of a decimal number
- ❑ **hundredth** - place value unit such that 100 hundredths equals 1 one
- ❑ **tenth** - place value unit such that 10 tenths equals 1 one