

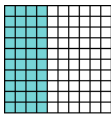
Grade 6 Mathematics Unit Preview

Quarter 2: Number Relationships and Computation (Decimals)

Objectives: (Your student will be able to)

- Read, write, and represent decimal numerals through ten-thousandths using symbols, words, or models.
- Estimate the value of a decimal as being close to zero, one-half, or one and indicate its placement on a number line. For example, 0.198 is close to 0. 0.897 is close to 1.
- Compare fractions, mixed numbers, and decimals (through thousandths) on a number line.
- Express a fraction as a decimal and a percent, and a decimal as a fraction and a percent. For example, 0.64 is equivalent to 64%
- Add and subtract decimals. For example, $3.546 + 7.321 = 10.867$.
- Multiply a whole number by a decimal. For example, $2.346 \times 7 = 16.422$.
- Multiply a decimal by a decimal. For example, $7.43 \times 0.22 = 1.6346$.
- Multiply and divide a decimal through thousandths by 10, 100, and 1,000 using mental math. For example, $5.43 \times 10 = 54.3$, $5.43 \times 100 = 543$, $5.43 \times 1,000 = 5,430$
- Divide a decimal by a whole number.

Vocabulary: (Words your student will need to understand)

<ul style="list-style-type: none"> • Annexing zeros: Zeros added to the right of a decimal to add places as a shortcut for writing equivalent decimals. For example, 0.3, 0.30, 0.300, and 0.3000 all name the same amount. 	<ul style="list-style-type: none"> • Estimate: To find a number that is close to an exact amount.
<ul style="list-style-type: none"> • Equivalent decimals: Decimals that name the same amount. For example, $0.5 = 0.50 = 0.500$ 	<ul style="list-style-type: none"> • Decimals: Numbers with one or more digit to the right of the decimal point.
<ul style="list-style-type: none"> • Mental Mathematics: Mental math happens when computation is done by students “in their head”. 	<ul style="list-style-type: none"> • Percent: The ratio of a number to 100, percent means “per hundred”. <div style="text-align: center;">  <p>$\frac{40}{100} = 40\%$</p> </div> <p style="text-align: right;">40% of the squares are shaded</p>

Activities to do with your student (in addition to homework, optional):

- Create or pick numbers to make decimals. Add, subtract, multiply, or divide the decimals.
- Find percentages on labels or in the newspaper. Find decimal that is equivalent of those percentages.
- Practice basic facts.

