Packet 2: Percents

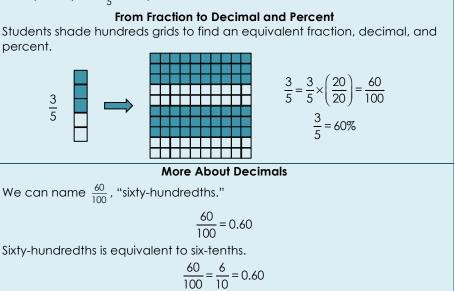
Dear Parents/Guardians,

In Proportional Reasoning: Packet 2, students solve problems involving percent as a number and percent of a number using visual representations, sense-making strategies, computations, and equations. They apply these strategies to solving application problems involving tax, tip, discount, and markup.

Percent as a Number

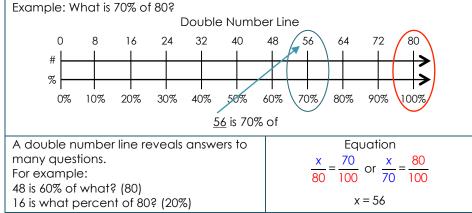
<u>Percent</u> means "parts per hundred." Students rename fractions and decimals as percents using visual representations, sense-making strategies, and computational procedures.

Example: Express $\frac{3}{5}$ as a percent and as a decimal.



Percent of a Number

Students find percent of a number using strategies such as a double number line and equations.



Percent Applications

 Students solve percent problems with various strategies, including "chunking."

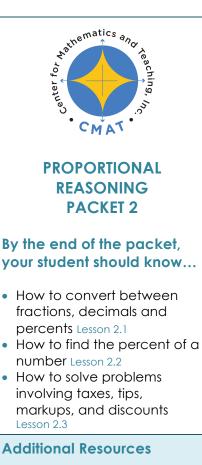
 Example: How much would a \$30 shirt cost with a 15% discount?

 10% of 30 = 3
 Since 10% is $\frac{1}{10}$, take $\frac{1}{10}$ of 30.

 5% of 30 = 1.50
 Since 5% is half of 10% take half of 3.

 15% of 30 = 4.50
 10% of 30 + 5% of 30 = 15% of 30

 15% off of \$30
 \$30.00 - \$4.50 = \$25.50



For renaming fractions as decimals using computational procedures: <u>http://youtu.be/Y1V5mZaMfTk</u>

- For renaming fractions as percents using computational procedures: http://youtu.be/QrtTyx4HBuc
- For additional notes and strategies, please see section 2.5.