Proportions and Percents

Here are some ideas to work on solving problems with percents:

1. Find examples of percents in daily life, for example, product sales, sales tax, or calculating tips. Convert these percents to decimals and fractions.
2. Video: Describing the Meaning of Percent:

<http://www.khanacademy.org/math/arithmetic/decimals/percent_tutorial/v/describing-the-meaning-of-percent>

1. Video: Describing the Meaning of Percent 2:

<http://www.khanacademy.org/math/arithmetic/decimals/percent_tutorial/v/describing-the-meaning-of-percent-2>

1. Video: Representing the number as a decimal, percent, and fraction:

<http://www.khanacademy.org/math/arithmetic/decimals/percent_tutorial/v/representing-a-number-as-a-decimal--percent--and-fraction>

1. Converting decimals to percents (ex 1):

<http://www.khanacademy.org/math/arithmetic/decimals/percent_tutorial/v/converting-decimals-to-percents--ex-1>

1. Converting decimals to percents (ex 2)

<http://www.khanacademy.org/math/arithmetic/decimals/percent_tutorial/v/converting-decimals-to-percents--ex-2>

1. Identifying Percent Amount and Base:

<http://www.khanacademy.org/math/arithmetic/decimals/percent_tutorial/v/identifying-percent-amount-and-base>

Here are some ideas to work on solving multiple-step problems with percents:

1. Video: Solving Percent Problems:

<http://www.khanacademy.org/math/arithmetic/decimals/percent_word_probs/v/solving-percent-problems>

1. Video: Solving Percent Problems 2:

<http://www.khanacademy.org/math/arithmetic/decimals/percent_word_probs/v/solving-percent-problems-2>

1. Video: Solving Percent Problems 3:

<http://www.khanacademy.org/math/arithmetic/decimals/percent_word_probs/v/solving-percent-problems-3>

Here are some ideas to work with unit rates with your student:

1. Growing by a percentage <http://www.khanacademy.org/math/arithmetic/decimals/percent_word_probs/v/growing-by-a-percentage>
2. Percent change: <http://learnzillion.com/lessons/1537-write-equations-to-represent-the-proportional-relationship-between-amount-of-change-and-final-amount>
3. What is the percent change?   
   <http://www.virtualnerd.com/algebra-1/linear-equations-solve/percents-and-percent-change/percent-change/percent-change-definition>

Here are some ideas to work with simple interest with your student:

1. Check the local paper for interest rates in car ads or in the business section. Calculate the amount of interest a customer would pay or earn for a given amount of money.
2. Video: Simple interest: <http://learnzillion.com/lessons/1538-calculate-simple-interest-using-the-simple-interest-equation>
3. Video: Khan Academy – Introduction to Interest

<https://www.khanacademy.org/science/core-finance/interest-tutorial/interest-basics-tutorial/v/introduction-to-interest>

Here are some ideas to work with compound interest with your student:

1. Check the business pages in the newspaper, and look for examples of compound interest rates for loans and/or savings account. Practice using the equation to find out how much the future value of the principal will be.
2. Video: Introduction to Compound Interest:

<http://www.khanacademy.org/science/core-finance/interest-tutorial/compound-interest-tutorial/v/introduction-to-compound-interest>

Video: Interest (Part 2) <http://www.khanacademy.org/science/core-finance/interest-tutorial/interest-basics-tutorial/v/interest--part-2>