1.01 Toolbox - MDFL

Converting Fractions to Percentages and Decimals

Conversions (page 2 of 7)	**Help Video and work space:**
Rational numbers can be represented in 3 common ways: • _____ • _____ • _____	View Video
How to convert a **fraction to a decimal:** Divide the _____by the _____. How to convert a **decimal to a fraction:** Place the decimal number over its _____ _____. Then simplify, if possible. --- How to convert a **decimal to a percent**: Move the decimal _____ places to the _____ . Then place the _____ symbol at the end. How to convert a **percent to a decimal:** Move the decimal _____ places to the _____. Then remove the _____ symbol. --- How to convert a **fraction to a percent:** First convert the fraction to a _____. Then convert the _____ to a percent and place the percent symbol at the end. How to convert a **percent to a fraction:** First convert the percent to a _____. Then convert the _____ to a fraction. Simplify, if possible.	View Video View Video View Video

Taxes and tips (page 3 of 7)	**Help Video and work space:**

When you calculate the tip for a server, you should only tip on the _____. That means don't calculate the tip _____ the tax, but _____ it.	View Video
To calculate the tip, you should _____ the subtotal by the tip rate (generally 15-25%) in decimal form. Example: Christopher orders a chicken sandwich that costs $12.97 and a soda that costs $1.75. His sales tax is 6% and he tips 20% of the subtotal (before tax). How much is his total bill with tax and tip included?	

Markups and Discounts (page 4 of 7)	**Help Video and work space:**
Markup formula: selling price = (1 + r)(original cost) where "r" is the markup rate. If something is marked up 25%, I can _____ the original price by _____ to find the new price. If something is marked up 67%, I can _____ the original price by _____ to find the new price.	View Video
Example: A tennis shop pays its wholesaler $30 a racquet. It then sells it to tennis players for $75. What is the markup rate?	View Video

Discount formula: selling price = (1 - r)(original cost) where “r” is the discount rate. If something is discounted 30%, I can _____ the original price by _____ to find the discounted price. If something is discounted 60%, I can _____ the original price by _____ to find the discounted price. Example: A skate shop is going out of business and has marked all accessories 35% off. How much will Paisley pay for a skate deck that was originally $65,if the sales tax rate is 7.5%?	**View Video**
Percent Increase Formula (page 5 of 7)	**Help Video and work space:**
Formula for percent increase: —---------- * 100 original value	**View Video**

Example of percent increase: In October, Leila worked 30 hours per week at a local coffee shop. In November, she worked 42 hours per week. What was the percent increase of Leila's weekly hours worked from October to November? Formula for percent decrease: ---------- * 100 original value Example of percent decrease: The average price of a gallon of gasoline in January was $2.455. In February, gasoline prices dropped to an average of $2.327 per gallon. What is the percent decrease in the price of gasoline between January and February?	**View Video**