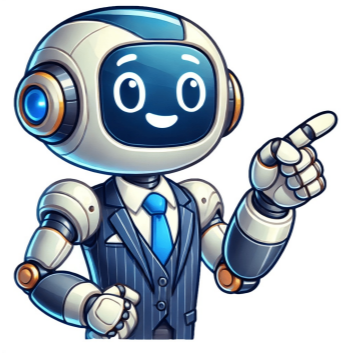


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Teaching middle school students about unit prices is an important step to students understanding ratios, rates and proportions, and eventually physics. More practically, its an important concept for students to learn when growing towards spending money well when going to the grocery store. Here are 15 unit rate activities geared towards middle students. PBS Learning Media includes a short video reinforcing students understanding of ratios. From there, teachers can build a lesson and interact with support materials for students and teachers. Additionally, you can share this resource with Google classroom. Learn More: PBS Learning Media This activity allows students to see how unit rates are used in practical skills. Students page through grocery bags and find the examples of the same object. They find the unit price for each object and the best deal. Learn More: Thatcher Math Cafe In this print activity, students have to read through labels and decide how to classify each example. They then glue the card in the appropriate column. Students being able to correctly sort through the cards is an effective learning strategy for clarifying their understanding of ratio word problems. Learn More: My Math Resources In this blog, a math teacher built a real-world scenario for students, asking them to estimate the number of sugar packets in each bottle. After looking at student solutions, they then worked together to solve for the real amount using unit rate math. Finally, she provided individual practice for students with new food items. Learn More: Math Equals Love This proportions foldable is a great way to introduce the equation in a tangible form for students with a little construction paper and a marker. You can reinforce the concept even further by asking students to draw an X in a different color pencil, showing the equation before they show the rest of their work. Learn More: Math Equals Love Here is another resource type to add to your lesson plan when introducing unit prices or unit rates to students. This graphic organizer helps students clearly see the rate, and unit rate and compare the two. Once students have had enough guided practice, they can make their own organizer. Learn More: To The Square Inch This video is an engaging and real-life applicable resource presenting word problems and examples. It can easily be included on Google Classroom or presented in snippets as response questions throughout the lesson to check for understanding, but would also be a great activity for homework, group work, or distance learning. Learn More: Youtube This unit price math foldable is a wonderful educational resource alternative to regular student worksheets. In this worksheet, students solve for the cost of individual ingredients, but also the finished product (a burger). This interactive activity challenges students to understand the real-world application of ratio activities in a restaurant and when spending money on groceries. Learn More: Common Core Material Here is an additional resource when teaching students about unit prices. They may be easily confused by all the types of ratios and rates, but this foldable acts as an anchor chart to reinforce what you already teach and help kids as they work through homework problems. Learn More: Cognitive Cardio Math This bundle of worksheets can be used as homework papers or guided practice at the end of math lessons. It covers a variety of topics from complex fractions to unit rates and also includes an answer key for teachers. Learn More: Exceeding The Core This interactive resource is a wonderful enrichment activity for students learning about unit prices. Hide the sets of cards around the room. As students find them, ask them to solve the problem. The answer links up with another students card, and eventually, the circle is complete. Learn More: Absolute Algebra In this middle school math activity, students are given several different bags of candy and asked to find the best and worst deal. Students are also given reflection questions including Why do you think this is the best/worst deal? Support your answer and then ask them to share with their peers. Learn More: Yummy Math Genius Generation has some great resources for distance learning or homeschooling student. First, students can watch a video lesson, complete some reading, and then be given several practice problems. There are also teacher resources to round out the experience and provide support. Learn More: Generation Genius Education.com provides lots of simple worksheets for students to practice what they have learned. In this particular worksheet, students solve several word problems and then have to compare various deals, selecting the best option. Learn More: Education Students solve multiple-choice unit price word problems and color starbursts the appropriate color based on their answers. While an answer key is included, its also easy for students to check themselves if you reveal a key on the board. Learn More: PreAlgebra Teachers Unit pricing makes comparing products from one brand to the next or between different sizes more like comparing apples to apples, so its easier to see which item really saves you the most money. Unfortunately, the unit pricing on the labels you see at the grocery store isnt always reliable. To recap: unit pricing takes the price of the item (say, \$1.59 for a 24-ounce jar of spaghetti sauce) and divides it by a standard unit of measurement (such as ounces) to provide a simple price comparison point (\$1.59 divided by 24 ounces = \$0.07 per ounce). You can then use that unit price to see if you're getting the best deal. Will the 45-ounce jar of sauce at \$3.69 save or cost you money? Doing the math (\$3.69 divided by 45 ounces = \$0.08 per ounce), the answer is no; buy the smaller jar. Usually you'll see the unit price on the shelf price label at grocery stores and big box retailers like Target and Wal-Mart. Despite their seeming helpfulness for smart shoppers, though, you can't always trust them. Unit Pricing Isn't Regulated or Required in All States According to the National Institute of Standards and Technology (NIST), only 19 states and 2 territories have unit pricing laws and regulations, and only 11 have mandatory unit pricing rules (i.e., how unit prices should be calculated and displayed). That means that 31 states don't have firm requirements for these pricing labels. The unit pricing you (may or may not) see on a label could vary greatly from one store to another or even between products within the same store, depending on where you live. The states that have mandatory unit pricing provisions are: Connecticut, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Oregon, Puerto Rico, Rhode Island, Vermont and the Virgin Islands. You can check the pricing laws and regulations for your state from this NIST page. Missing Unit Prices Stores in states that don't have mandatory unit pricing rules can still choose to add a unit price calculation on their price labels for the convenience of their customers or choose to omit them altogether. How-To: Geeks' Lowell Heddings, who tipped us off to this issue, noticed that the Target near himme's in a state without mandatory unit pricing laws started to take down the per unit pricing labels. Even more curious, the pricing for laundry detergent seemed off. Usually, larger sizes of a product are a better deal by the larger size or in bulk and pay less per unit. In his case, the larger size of the same laundry detergent brand and product cost more. 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Though the second can is cheaper, the price per unit is \$0.19 higher than the price per unit for the first can is \$0.14. Per ounce, the first can costs less than the second can! Most of the time, larger packages tend to cost less per unit than smaller packages. That's the better deal, if you are going to eat the whole package before it goes bad. For some foods, buying bigger may not be better if you end up throwing half of it out. Only you know what will work for you and your family. Fresh produce When shopping the produce section, start by reading the shelf sticker: is it priced per piece or by the pound? Which is the better buy? Lets compare these peppers and find out. To compare the best price between piece or pound, grab your phone and plug this in: By Item: Weigh the item in Pounds. This green pepper weighs 0.3 pounds. Divide the price by the weight to get the price per pound. So, divide .99 by .3 to find that green peppers cost \$3.30 per pound. By Pound: Weigh the item by piece. These peppers weigh .25 pounds. Multiply the weight by price to get the price of the piece. So, take .25 x 4.8 to find this pepper costs \$1.20. The mix of bell peppers looks a lot more expensive, and when you calculate the cost, it is \$0.21 more than the green pepper. The green pepper is the better buy. Packaged products Which is the best deal? If you guessed Salad Dressing 2 ounce right! The price per ounce is found by dividing the cost of the item by the number of ounces. Salad Dressing 1 costs \$3.89 for 32 ounces. For this dressing, divide \$3.89 by 32 to get \$0.12. Salad Dressing 2 costs \$4.29 for 48 ounces. For this dressing, divide \$4.29 by 48 to get \$0.09. Most grocery store shelf labels have the price per ounce posted so you can compare unit prices without a calculator. Other tips for finding the best deals End caps may display items that are advertised as specials, but check the price because it may be the regular price (or even marked up). Shop the upper and lower shelves in each aisle. Items at eye level are placed there to make the product more enticing although it may not be the healthiest or least expensive option. Saving money when food shopping can be a little more complicated. Lets take a look at a few examples. Lets start with laundry detergent. The regular size of the detergent is 100 ounces and costs \$12.99. The larger size is 150 ounces and costs \$18.99. The larger size of a product are a better deal by the larger size or in bulk and pay less per unit. In his case, the larger size of the same laundry detergent brand and product cost more. There was no per unit price label to highlight that difference maybe that was the point. 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Similar math needs to be done for toilet paper, with all its single-ply, double-ply, "mega roll" and other craziness. Fuzzy Math, Swapped Products, and Other Stocking Errors And then there are just the normal human errors that can lead us astray. You're looking to grab an item quickly off the shelf and check the per unit shelf pricing but the shelf price is incorrect or the products are swapped, as the Walmart example from Cockeyed.com above shows. Or the price per unit calculation is simply wrong, as in this comparison shopping example highlighted on Consumerist: The single 10 oz. bottle of Alcon Opti-Free contact solution costs \$8.99, while the twin pack, with 20 oz. total, costs \$18.99\$1 more than two single bottles," he points out. If you break down the math, things get more confusing. The shelf tag measures the price per pint for some reason, and a pint is sixteen ounces. Yet if you divide \$18.99 by 20 for the per-ounce price and then multiply it by 16 again, you get \$15.19 per pint. States with pricing regulations have set guidelines for how much error is allowed on the price labels. In New York, for example, if at least 96% to 98% of items (depending on the store size) are accurately priced, the remaining 2 to 4% of pricing label errors are acceptable to the industry regulators. We shoppers might feel differently about that. The Solution: Do the Math Yourself! The takeaway is that you can't really trust the unit pricing labels to always figure out which is really the better buy. If the store has the unit pricing on the label, it could help you comparison shop, but it could also lead you astray. The solution is to calculate the per unit price yourselves, even if there's already unit pricing on the label. This is tedious and annoying, but it's the only way to compare prices for sure. We've mentioned two apps before that can help: Unit Price Compare for Android (free) and CompareMe Shopping Utility for iOS (\$1.99). You might also consider keeping a price book so you know the typical sales prices (and per unit prices) for the groceries and household items you buy most. Finally, remember that larger and bulk buys don't always offer the better value, and steer clear of grocery stores' other deceptive tricks. Photo by lupulius (Shutterstock), Mike Mozart. Real Life, Good Food Sometimes similar foods are sold in different sizes, which can make it hard to compare prices. Unit pricing is a way to compare similar products to determine which is the best deal. Instead of focusing only on the overall price, with unit pricing you calculate the cost of a unit of that product, which could be per serving, ounce, pound or a few examples. Lets see how this works by comparing two cans of chicken noodle soup. The first can is 19 ounces and costs \$2.69. The second can is 10.5 ounces and costs \$1.99. The second may be the lower price, but is it the best deal? Though the second can is cheaper, the price per unit is \$0.19 higher than the price per unit for the first can is \$0.14. Per ounce, the first can costs less than the second can! Most of the time, larger packages tend to cost less per unit than smaller packages. That's the better deal, if you are going to eat the whole package before it goes bad. For some foods, buying bigger may not be better if you end up throwing half of it out. Only you know what will work for you and your family. Fresh produce When shopping the produce section, start by reading the shelf sticker: is it priced per piece or by the pound? Which is the better buy? Lets compare these peppers and find out. To compare the best price between piece or pound, grab your phone and plug this in: By Item: Weigh the item in Pounds. This green pepper weighs 0.3 pounds. Divide the price by the weight to get the price per pound. So, divide .99 by .3 to find that green peppers cost \$3.30 per pound. By Pound: Weigh the item by piece. These peppers weigh .25 pounds. Multiply the weight by price to get the price of the piece. So, take .25 x 4.8 to find this pepper costs \$1.20. The mix of bell peppers looks a lot more expensive, and when you calculate the cost, it is \$0.21 more than the green pepper. The green pepper is the better buy. Packaged products Which is the best deal? If you guessed Salad Dressing 2 ounce right! The price per ounce is found by dividing the cost of the item by the number of ounces. Salad Dressing 1 costs \$3.89 for 32 ounces. For this dressing, divide \$3.89 by 32 to get \$0.12. Salad Dressing 2 costs \$4.29 for 48 ounces. For this dressing, divide \$4.29 by 48 to get \$0.09. Most grocery store shelf labels have the price per ounce posted so you can compare unit prices without a calculator. Other tips for finding the best deals End caps may display items that are advertised as specials, but check the price because it may be the regular price (or even marked up). Shop the upper and lower shelves in each aisle. Items at eye level are placed there to make the product more enticing although it may not be the healthiest or least expensive option. Welcome back, everyone! I want to talk about one of the most overlooked skills in grocery shopping: deciphering price tags or how to look at price per unit. It may seem deceptively simple, but it can actually get quite complicated. You may be on the lookout for sales, but are you really getting the best deal? Lets learn how to read between the lines and see if that sale price is worth it. Understanding price tags and decoding unit price can help us make informed decisions and find the best value for our money. 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## Unit rate tags. Unit price tag. Unit rate price. Unit rate and unit price.

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