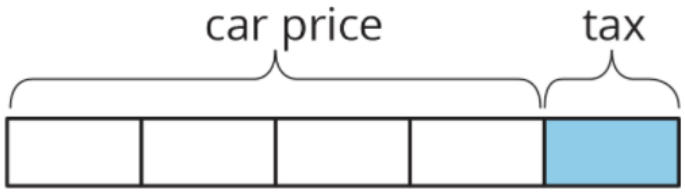
4-12: Learning Goals

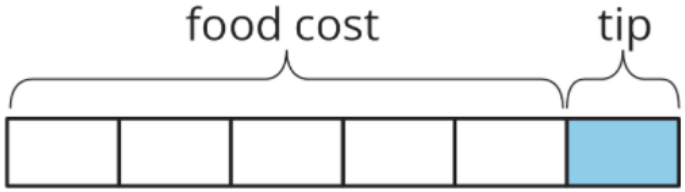
- Let's find unknown percentages.

4-12-1: Tax, Tip, and Discount

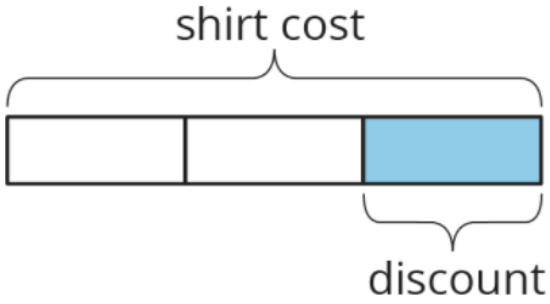
What percentage of the car price is the tax?

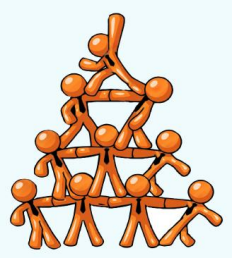


What percentage of the food cost is the tip?



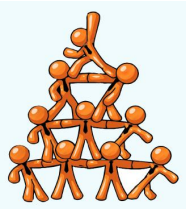
What percentage of the shirt cost is the discount?





4-12-2: What Is the Percentage?

1. A salesperson sold a car for $18,250 and their commission is $693.50. What percentage of the sale price is their commission?
2. The bill for a meal was $33.75. The customer left $40.00. What percentage of the bill was the tip?
3. The original price of a bicycle was $375. Now it is on sale for $295. What percentage of the original price was the markdown?



4-12-3: Sporting Goods

Problem Card

1. Silently read your card and think about what information you need to answer the question.
2. Ask your partner for the specific information that you need.
3. Explain to your partner how you are using the information to solve the problem.
4. Solve the problem and explain your reasoning to your partner.

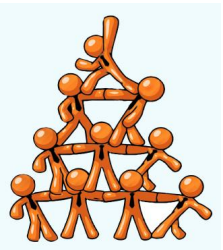
Pause here so your teacher can review your work. Ask your teacher for a new set of cards and repeat the activity, trading roles with your partner.

Data Card

1. Silently read the information on your card.
2. Ask your partner "What specific information do you need?" and wait for your partner to *ask* for information. *Only* give information that is on your card. (Do not figure out anything for your partner!)
3. Before telling your partner the information, ask "Why do you need that information?"
4. After your partner solves the problem, ask them to explain their reasoning and listen to

4-12: Lesson Synthesis

- When the original price and discounted prices are known, how can we find the percent markdown?
- When you know the original price of an item and the price you paid at a register, how can you find the tax rate?



4-12: Learning Targets

- I can find the percentage increase or decrease when I know the original amount and the new amount.

4-12-4: Shoes on Sale

With a coupon, you can get a pair of shoes that normally costs $84 for only $72. What percentage was the discount?