Opener

1. Which is the better deal: $1.99 for 24 ounces or $1.79 for 20 ounces?

3. When you add 5% tax to an item, what percentage of the item are you actually finding? (think about the bar model...)

2. Coffee pots are on sale 10% off. If the coffee pot I want is priced $120, what is the sale price?

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Learning Target

I can solve percent problems using a percent equation.

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Finding Percent

To calculate percent without using a model, you change the percent to a _____, and multiply by the number.

EXAMPLES

In a survey of 45 students, 20% said that they stay up past 10 pm. How many of the students stay up past 10?

_____ x 45 = _____

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The dinner bill came to $25, and I am going to leave a 15% tip. What is the total cost of the dinner?

_____ x 25 = _____

A video game is regularly price $50, but is on sale for 30% off.

_____ x 50 = _____

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Steps for finding the percent without a model:

1. Determine if it is a mark-up, mark-down, or just percent of something

2. Markups – add the markup percent to 100, change to a decimal and multiply

3. Markdowns – subtract the markdown percent from 100, change to a decimal and multiply

4. Percent of a Number – change to a decimal and multiply

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1. A sweater is priced $42.99 but on sale for 30% off. What is the sale price of the sweater?

3. The bill at dinner came to $43.76 before tax. If 6.5% tax is added to the bill, what will the final total be?

2. In a survey of 400 people, 42% reported pizza as their favorite meal. How many of the people like pizza?

4. Marjorie deposits $1275 into an account that makes 6.2% interest per year. How much interest will she make in a year?

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5. Diet cranberry juice has 30% fewer grams of sugar than regular cranberry juice. If a serving of regular cranberry juice has 130 g of sugar, how many grams of sugar are in a serving of diet juice?

7. Glen makes 4% commission on his sales. If he makes a sale of $12,000, how much commission does he make?

6. My subtotal at the bookstore came to $11.76. What is my total with 7% sales tax added on?

8. A retailer marks up clothing 35% before selling. If a pair of jeans is valued at $19, what will the retailer sell them for?

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Summary

Talk Discussion: Come up with one example to share with the class where you multiply by a percent greater than 100.

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