

Using Mental Math to Solve Percent Applications

Name _____
Block _____ Date _____

Sales at Store

Items have an original (or regular) price.

If the item is marked 25% off, it means your save 25% of the regular price. We say it is the % off or % discount or % saved. To find the sale price you would subtract the dollars saved from the regular price.

If you save 25% of the regular price, it means you are paying 75% of the regular price. What you pay is called the sale price.

1) The regular price of an item is \$90. It is marked 10% off. How much money do you save?	2) The regular price of an item is \$250. There is a 20% discount. What is the sale price.	3) An item is discounted 25%. If the regular price is \$360, find the sale price.	4) The regular price of an item is \$400. There is a 15% discount. How much money will you save buying the item on sale?
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Tips at Restaurants

In the United States waiters and waitresses are part of the service industry and we are expected to give them a percentage of our restaurant bill. This amount of money is called a tip or a gratuity.

The expectation is that you give between 15% and 20% depending on the type of restaurant and quality of the service.

We can calculate the tip or we can calculate the restaurant bill that includes the tip (the total of the bill + the tip)

If we know the amount of the bill and the tip, we can calculate the percent tip that have been given. When the question says, find the percent, find the fraction first. $\frac{\text{tip}}{\text{bill}}$ Then convert the fraction to a percent.

1) If the total of the restaurant bill is \$80, find how much money a 15% tip will be.	2) Susan gives a \$4 tip on a restaurant bill that is \$20. What percent gratuity did she leave?	3) Jared pays a 15% tip on a dinner that cost \$50. What is the total he pays including the tip?	4) The dinner bill for the Armstrong family was \$120. The total they paid including tip was \$144. What percent gratuity did they leave?
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