

Try the following problems.

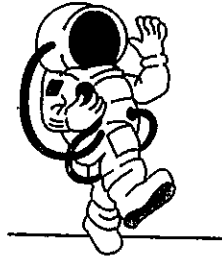
- 1) A helmet was discounted 30%. If the regular price of the helmet is \$80, what is the new price? Hint: You are looking for the new price, not the amount of discount.
- 2) It is customary to leave a 15% tip at most restaurants. What would be the recommended tip for a \$65.00 meal?
- 3) If a bank pays 4% yearly interest on money in savings accounts, how much interest would you earn if you deposited \$960 for a year?
- 4) Teachers at Einstein Elementary School are going to be given a 5.1% raise in their salary. If Algebra Woman is currently earning \$36,000 in salary, what will her new salary be after she is given a raise?
- 5) Store A was offering a 40% discount on a \$250 lawnmower. Store B was offering a 15% discount on the same lawnmower which they regularly sell for \$175. Which store has the better deal? Make sure you explain why.
- 6) A report in a school newspaper said that 18% of the school's 568 students were home with the flu. How many students were home with the flu? (Round to the nearest student.)
- 7) Donna can buy a new riding mower at a store in Illinois or at a store in Iowa. Both stores are selling the mower for \$1295, but Iowa's sales tax is 6% while Illinois's sales tax is 7%. How much money will Donna save if she buys the riding mower in Iowa?
- 8) Keith bought a group of stocks in 1999 for \$22,500. Since that time, his stock has lost 42% of its value. What is Keith's stock worth now?
- 9) Luke is using a credit card that charges a 22.9% yearly interest. If he buys a computer for \$1250, what will be his interest charge for the first year?
- 10) Jay decided to give Steve .5% of the \$80 he found. How much money will Jay be giving to Steve?



Try the following percent problems that have to do with an increase or a decrease.

1) Collin's allowance went from \$8 to \$10. What was the percent of increase?

2) The weight of one astronaut went from 180 pounds on the earth to only 30 pounds on the moon. What percent did his weight decrease?



3) After a long rain, the river went from a depth of 15 feet to a depth of 18 feet. What percent did the river level increase?

4) Calculators used to be very expensive when they were first invented. A calculator that can be purchased for \$10 today, would have cost \$300 thirty-five years ago. What is the percent of decrease in the price of calculators?

5) When people exercise, their heart rate can jump significantly. When Jacob is sitting, his heart beats at a rate of 50 beats per minute. When he runs, his heart rate jumps to 160 beats per minute. What is the percent of increase in Jacob's heartbeat when he runs?

6) Sharon was a softball pitcher who was very good at striking out batters. In one year she struck out 68 batters. The next year she struck out 92. What was the percent of increase in her strikeout total?

7) The original price for a snowboard was \$125. Because they weren't selling well, they were discounted to \$75. What percent discount is the store offering?

8) A painting was bought at a garage sale for \$5. Two years later it sold for \$50,000. What was the percent of increase of the painting?

9) On December 24th, a Christmas tree cost \$30. The next day its price dropped to 25 cents. What is the percent of decrease?

10) A sprinter ran a 100-yard dash in 10 seconds. The next time he ran, his time was 9.9 seconds. What was the percent of decrease in his time?