

Percent Increase and Decrease Word Problems

1. A sports store near Big Bear Lake is having a 20% off sale on all water skis. What will the sale price be for water skis which regularly sell for \$248?
2. Skis at a sports store near Snow Summit are on sale for \$476. If the original price was \$560, what discount rate does this represent?
3. The average fine for entering a National Forest Wilderness without a permit increased from \$65 to \$78. What rate of increase is this?
4. A stereo is marked down \$75. If this is a 15% decrease, find the *sale price*?
5. A pair of snow boots at an equipment store in Big Bear that originally cost \$60 is on sale for \$36. What is the rate of discount?
6. An employee's hourly raise went up from \$10 per hour to \$12 per hour. What is the rate of increase?
7. A math book at the Victor Valley College bookstore originally cost \$84 to purchase. If they sell it for \$126, what is the markup rate?
8. Bruce's hourly wage increased from \$15.50 to \$18.60. What rate of increase does this represent?
9. A stereo system is marked down from \$450 to \$382.50. What is the discount rate?
10. Rosa received a monthly raise of \$162.50. If this represented a 6.5% increase, what is her monthly salary after the raise?
11. A store marks up merchandise 40% for profit. If an item costs the store \$12, what is the selling price?
12. Jasmine bought computer which was discounted from \$350 to \$273. What is the discount rate?
13. The purchase price of an iPad is \$650. What is the total price if the sales tax rate is 8%?
14. A managers' salary at Green Dot increased from \$48,000 to \$51,360. What is the rate of increase?
15. An employee's salary increased by \$4,500 which represents a 15% raise. What is the employee's *new salary*?
16. Yahoo in Sunnyville currently has a staff of 6200 employees. Next month, Yahoo will decrease its staff by 8%. How many people will be employed by Yahoo next month?

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17. Darren makes \$12 per hour. Next semester, he will be making \$14 per hour. What rate of increase does this represent? Round the answer to the nearest tenth of a percent.
18. Lowes in Rancho Cucamonga is having a one-day 20% off sale. What will the sale price be for an exterior door which regularly sells for \$360?
19. An LCD TV is on sale for 24% off. If the original price was \$800, find the sale price.
20. An employee's salary for Alar Services is \$37,500. Next year, she will get an 8% increase in salary. How much is her new salary?
21. A bank tellers' hourly wage will increase from \$24 to \$27.60. What percent increase does this represent?
22. Gas prices decreased this week from \$4 per gallon to \$3.80 per gallon. What rate of decrease does this represent? (Rate is another word for percent.)

Answers:

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|--------------------|-----------|-----------|-----------|----------------|
| 1. \$198.40 | 2. 15% | 3. 20% | 4. \$425 | 5. 40% |
| 6. 20% | 7. 50% | 8. 20% | 9. 15% | 10. \$2,662.50 |
| 11. \$16.80 | 12. 22% | 13. \$702 | 14. 7% | 15. \$34,500 |
| 16. 5704 employees | 17. 16.7% | 18. \$288 | 19. \$608 | |
| 20. \$40,500 | 21. 15% | 22. 5% | | |