Percent Problems

- 1. If Ron correctly answers 47 out of 75 questions on an exam, what is his percent?
- 2. The attendance at school on Friday was 551 students. This was 95% of the total enrolment. What is the total enrolment of the school?
- 3. Jean earned \$40 babysitting one weekend and spent 15% of her earnings. How much of her earning did she have left over?
- 4. Nan earns \$2490/month. After income tax, pension, unemployment insurance, etc., her take home pay is only \$1992. What percent of her salary is her take home pay?
- 5. In one day Brian read 85 pages in a book. If this was 20% of the entire book, how many pages are there in this book?
- 6. Last week Simon earned \$128. This week he earned \$144. What was the percent increase in his earnings?
- 7. The price of a car last year was \$18,000. This year it costs only \$16,500 to buy it used. What was the percent decrease in price?
- 8. Ken received a mark of 80% on a science exam. How many questions did he get wrong if there were 240 questions on the exam?
- 9. 80% of the programs on CBC are made in Canada. If the CBC runs programs from 8:00 am to 2:00 am each day, how many hours of Canadian programs are on each week?
- 10. Of 55 people in a room, 35 are women. What percent are men?
- 11. Mr Potter borrowed \$2000 from a finance company for a period of one year. He paid \$720 in interest. The interest was what percent of the amount borrowed?
- 12. Miss Comby earned \$360 per week. Then her salary was increased to \$420 per week. By what percent was her salary increased?
- 13. Glenda bought a winter coat for \$122.40 on sale when the regular price was \$144. What was the rate of discount?
- 14. The sale price of a food processor after a discount of 20% was \$180. What was the regular price of this processor?
- 15. A used car had a regular price of \$12,000. The car was first discounted 15% and then by another 10%.
 - a) What was the final selling price of the car?
 - b) What was the total percent discount on the car?

- 16. Julie saved \$22.05 on a pair of shoes that were on sale for 35% off the regular price.
 - (a) What was the regular price of these shoes and
 - (b) What was the the sale price of these shoes?
- 17. At Honest Henry's Used Car Lot, a used car salesman sold a car for \$5000 and received a commission of \$250. What is his rate of commission?
- How much commission is lost if a real estate agent reduces her 4% commission rate to 3.2% on a \$264,000 sale?
- 19. \$7.47 was the sales tax payable on goods that retailed for \$124.50. What is the rate of the sales tax?
- 20. How much change does Aurther get from a \$50 bill if he buys a pair of jeans for \$42 and the sales tax is 12%?e
- 21. A man invested \$2000 at a rate of 4% per annum. What is his balance after one year? After two years? After 10 years?
- 22. What sum of money was deposited if the interest was \$12 at the end of one year and the rate was 6%?

<u>Bonus:</u>

- 23. A man has a rectangular patio in his garden. He decides to enlarge it by increasing both length and width by 10%. The percentage increase in area is...
- 24. Sam's age is 125% of Mary's age. Mary's age is p% of Sam's age. What is the value of p?
- 25. On a test of 30 questions, Sue had 50% more right answers than she had wrong answers. Each answer was either right or wrong. How many questions did she answer correctly.
- 26. The cost of wax including, 5% sales tax, is \$1.20. If the price of a can of wax, without sales tax, is reduced to 70% of its original cost, what is the new price before the tax is added?

Answers:

1) 62¾% or 63%	2) 580	3) \$34	4) 80%	5) 425
6) 12.5 %	7) 8⅓%	8) 48	9)101	10) 36.4%
11) 36% int	12) 16⅔% or 17%	13) 15%	14) \$225	15a)\$9180 b)23.5%
16a)\$63 b)\$40.95	17) 5%	18) \$2112	19) 6%	20) \$2.96
21) \$2080; \$2163.20; \$2960.49		22) \$200		